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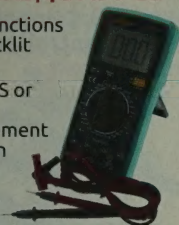
* Restrictions Apply

Talking Digital Multimeter

35042 ME | \$39.95 ea

10 Functions
& Backlit

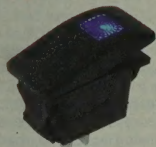
True RMS or
Average
Measurement
Selection



12VDC Lighted Rocker

35111 SW | \$5.95 ea

SPST



10 Turn Counting Knob

34915 KN | \$3.95 ea

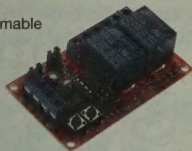


4mm Shaft

Dual 5V Relay Module

35070 MP | \$12.95 ea

Programmable
Modes



RGB Backlight 2X16 LCD Display

35066 OP | \$9.95 ea



Parallel Interface

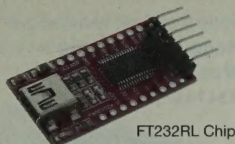
2X16 LCD Serial Display

35054 OP | \$9.95 ea



USB-TTL Converter

35030 MP | \$4.95 ea



FT232RL Chip

5VDC 3A Plug Supply

34291 PS
\$2.95 ea

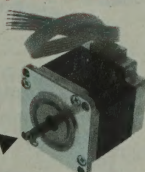


5.5/2.5mm

5V Step Motor

35032 MS | \$12.95 ea

NEMA 23



1/4" Shaft

12VDC 5A Power Supply

34970 PS | \$11.95 ea

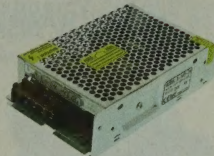


5.5/2.5mm

24VDC 4A Power Supply

34972 PS | \$12.95 ea

Select 110/220V Input



Push Button Switch with Metal Button



SPST-NO

35103 SW Red
35104 SW Gold
35105 SW Blue
35106 SW Black

\$4.95 ea

150A 200PIV RECTIFIER



34993 DI
\$16.95 ea

Needle Point Test Leads



35127 TE
\$2.95 ea

12VDC Lighted Rocker

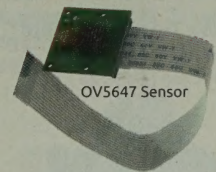
34835 SW | \$1.39 ea

SPST



Raspberry-Pi 5M Pixel Camera Module

33277 MP | \$14.95 ea



OV5647 Sensor

12VDC Battery Monitor

34899 ME
\$19.95 ea

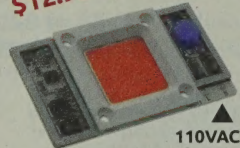


LED Bargraph

50W LED Modules

34766 OP Grow Pink
Require
Heatsink

\$12.95 ea



110VAC
Input

Pigtail Power Cord

35094 CB | \$2.95 ea



6ft. USB 2.0 Cable

35000 CB | \$0.99 ea



Type A Plug

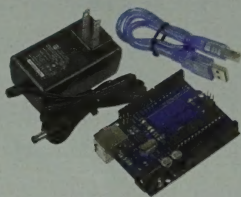
Type B Plug

Our Most Popular Products
Visit us at www.mpja.com for complete line of products

Uno-R3 Compatible Micro Controller Kit

30297 MP | \$19.95 ea

Includes Power Supply & USB Cable
Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc/en and others on-line. Includes Power Supply & USB Cable Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc/en and others on-line.



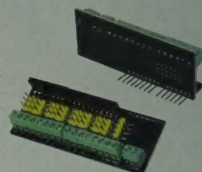
UNO-R3 Protective Case

32182 MP | \$2.95 ea



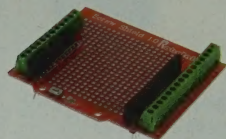
UNO Terminal Shield Board

32799 MP | \$5.95 ea



Perfboard Terminal Arduino Compatible Shield

32797 MP | \$5.95 ea



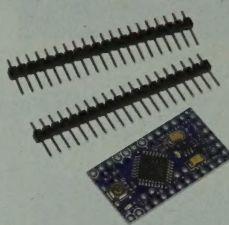
Solderless Breadboard, Arduino Compatible Shield

32400 MP | \$8.95 ea



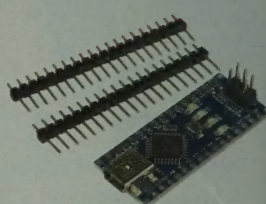
Pro Mini Compatible Micro Controller

31355 MP | \$4.95 ea



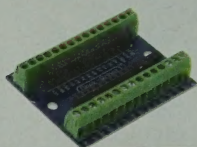
Nano V3 Compatatible Micro Controller

31354 MP | \$9.95 ea



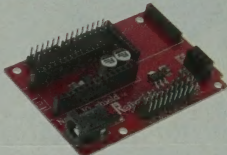
Nano Terminal Shield Board

32796 MP | \$4.95 ea



Nano Shield W/ Wireless Expansion

33324 MP | \$8.95 ea



Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc/en and others on-line.

Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc/en and others on-line.

Mega R3 Compatible Controller

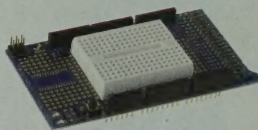
33311 MP | \$19.95 ea

Compatible with most existing Duemilanove & Dieci program, shield & IDEs The Mega is major step up in processing power. Information & Freeware available through, forums, www.arduino.cc/en, & others on-line.



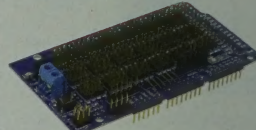
Mega Prototyping Breadboard

31547 MP | \$9.95 ea



Mega I/O Sensor Shield V2.0

31060 MP | \$12.95 ea



Iduino Starter Upgrade Kit

33312 MP | \$39.95 ea

This is a upgrade version UNO R3 compatible starter kit, with added components to achieve more features and experiments. Includes Links to Data sheets. Information & Freeware available through, forums, www.arduino.cc/en, & others on-line.



Iduino Rfid Starter Upgrade Kit

33313 MP | \$55.95 ea

This is a UNO R3 compatible starter kit, with added components for RFID Includes Links to Data sheets and information. available through, forums, www.arduino.cc/en, & others on-line.



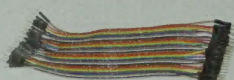
65 Pcs. Molded Jumper Set

30116 PL | \$3.95 ea



40 Pcs. Male To Male Jumper Set

31217 PL | \$3.95 ea



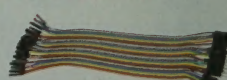
40 Pcs. Female To Female Jumper Set

30117 PL | \$3.95 ea



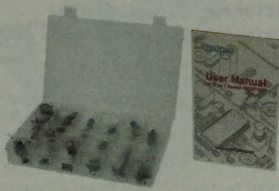
40 Pcs. Male To Female Jumper Set

31218 PL | \$2.72 ea

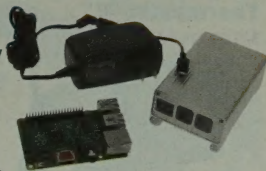
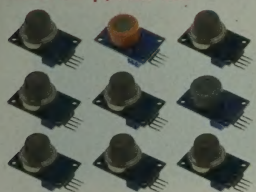


Arduino 37 pc. Sensor Starter Kit
33317 MP | \$35.95 ea

Sensor kit for general use with Arduinos and other microcontrollers. This 37pc. kit is ideal for Classrooms or Instructional Labs. Includes Handy latching compartment storage box and Experimenter's Manual covering Sketches & use with the Arduino UNO

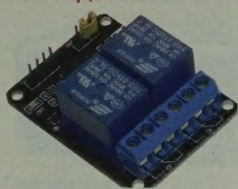

Raspberry-Pi-2B Starter Set
32670 MP | \$75.95 ea

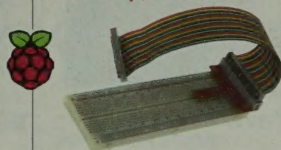
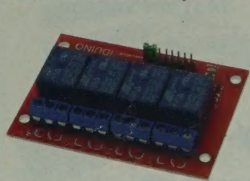
Raspberry-Pi-2B Controller with Heavy Duty Aluminum Case, Fan & Power Supply. Full featured 32 bit, Raspberry-Pi 2 Model B. This small card sized microcomputer Features: Broadcom's BCM2836 SOC 900MHz processor, 1GB RAM and VideoCore IV 3D Graphics core. Requires you to download an Operating System to your SD Card Software: Full range of ARM GNU/Linux distributions NOOBS, Raspbian, Pidora, Windows10 (Fall of 2015)


9 pcs. Gas Sensor Kit
32507 MP | \$24.95 set


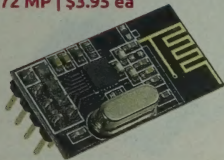
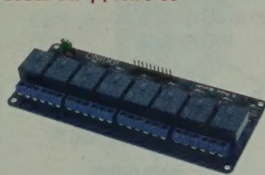
MQ-Series gas sensors coupled with a LM393 IC. 4 pin connections. Can be interfaced to an Arduino or other micro controllers. Includes 1 ea Sensor module

MQ-2 Combustible Gas Sensor
MQ-3 Ethanol Alcohol Sensor
MQ-4 Methane Gas Sensor
MQ-5 Natural Gas Sensor
MQ-6 Propane-Butane Sensor
MQ-7 Carbon Monoxide Sensor
MQ-8 Hydrogen Gas Sensor
MQ-9 Methane-Propane Sensor
MQ-135 Air Quality Sensor

5V Dual Relay Board
32442 MP | \$3.95 ea

Up Grade Power Supply for Raspberry-Pi
35137 PS | \$9.95 ea

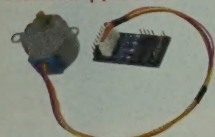
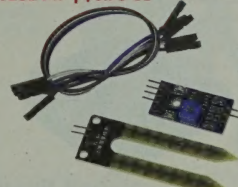
28 Pin GPIO Breakout Breadboard Kit for Raspberry-Pi
33050 MP | \$10.95 ea

12V Quad Relay Board, Isolated 33330 MP | \$7.95 ea

Raspberry-Pi 5M Pixel Night Vision Camera
34985 MP | \$24.95 ea

Raspberry-Pi 5M Pixel Camera Module
31497 MP | \$34.95 ea

2.4 GHz WIRELESS TRANSCEIVER
31572 MP | \$3.95 ea

5V 8 Channel Relay Board
33329 MP | \$10.95 ea

OPTO Interrupter Sensor
31577 MP | \$2.95 ea

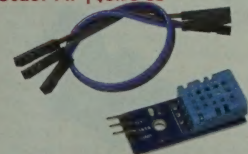
Current Sensing Module

5Amp | 31584 MP | \$4.79 ea
20Amp | 31944 MP | \$4.79 ea
30Amp | 31586 MP | \$4.79 ea

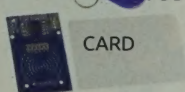

5V Gearhead Stepper and ULN2003 Driver Board
31592 MP | \$4.95 ea

Moisture Sensor
30282 MP | \$6.95 ea

Ultrasonic Ranging Module
19605 UT | \$3.31 ea


Use with Microcontrollers

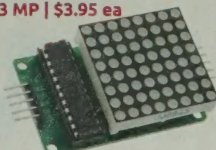
USB to RS-232 Arduino Bridge Control, CP2102
31575 MP | \$4.95 ea

Humidity Sensor
30287 MP | \$5.95 ea

RFID/NFC Reader/Writer 31111 MP | \$4.95 ea
NEW lower PRICE

FOB


I/R XMIT/Receiver Pair
32352 MP | \$3.95 ea

Add Remote Control to Microcontrollers


8X8 Programmable Red LED Matrix
34563 MP | \$3.95 ea


Programmable Digital Thermostat "C"

32709 MP | \$9.95 ea



Thermostat, Auto Heat/Cool, "C"

32964 MP | \$13.95 ea

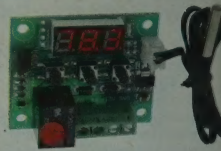


Digital Temperature Controller

32184 MP | Celsius | \$5.95 ea

32764 MP | Fahrenheit | \$6.95 ea

Compact digital thermostat with isolated relay output and 3digit 0.28" LED display. Features: Programmable set Points, Cool or Heat control, Hysteresis, Delay and High Temp. Alarm. Power: 12VDC Current: ~65mA Relay energized Accuracy: Measurement : 0.1deg. Relay: SPST-NO 20A/14VDC; 20A/125VAC Sensor: NTC waterproof probe (12in leads) Terminal Strip for Power & Relay contacts.



High Temperature Thermostat

34687 MP | \$12.95 ea



[-30 to 999 Deg "C"

Mini Electronic Thermostat

32934 MP

\$12.95 ea

Shows Ambient & Set Point Temps.

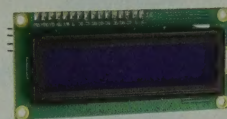


Selectable "C" or "F"

2 X 16 Character LCD

31164 MP | \$9.95 ea

Serial Interface



4 X 20 Character LCD

34346 MP | \$7.95 ea

Parallel Interface



Temperature Controller

34757 MP | \$8.95 ea

-50 to +110 "C"



Thermostat with Timer

34686 MP | \$12.95 ea

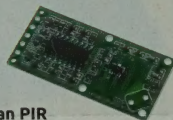


Selectable "C" or "F"

Doppler Radar Motion Sensor

34685 MP | \$1.95 ea

Better Than PIR



Programmable Security Key Pad

31928 SC | \$49.95 ea



Motion Detector with Light Sensor

31227 SC | \$3.95 ea



Powered Breadboard

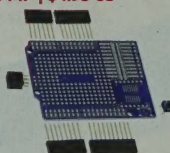
35125 TE | \$99.95 ea

+/- 0-15VDC & +5V Supplies



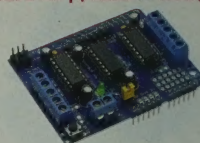
Perfboard Shield Kit

32795 MP | \$4.95 ea



Motor Shield Board

30292 MP | \$10.95 ea Now \$5.95



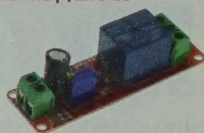
Motion Detector Mini Module

32061 SC | \$3.95 ea



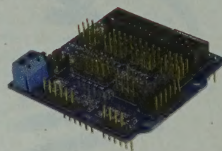
12VDC 0-10 Sec. Time Delay Relay Module

33421 RL | \$2.95 ea



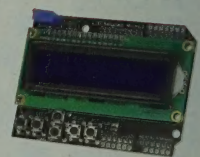
Sensor Shield

31058 MP | \$7.95 ea



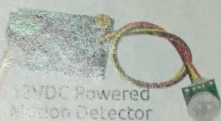
2 X 16 LCD Shield

31059 MP | \$11.95 ea



PIR Relay Module

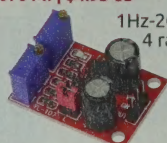
32183 SC | \$5.95 ea



Adj. Pulse Generator

31070 MI | \$4.95 ea

1Hz-200KHz in 4 ranges



Dual Audio Amplifier

32705 MP | 50Watt | \$14.95 ea



14 Watt Audio Amplifier

31806 MI | \$5.95 ea



General Purpose Solder Station**15860 TL | \$16.95 ea**

Adjustable from 5 to 50 Watt (800 deg. F max) Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.

For replacement tips and handle visit our website www.mpja.com

**Temperature Controlled Solder Station****15845 TL | \$48.95 ea**

Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +10 deg. "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320 deg. "F" to 800 deg. "F". Isolated tip, fused line. 117 VAC. For replacement tips and handle visit our website www.mpja.com

**Most Popular!!****Circuit Board Work Holder 33800 TL | \$7.95 ea****LED Lighted Soldering Iron 17516 TL | \$5.95 ea**

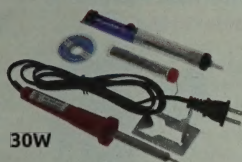
Replacement Tip Available

SMD Hot Tweezer Adapter 15847 TL | \$12.95 ea

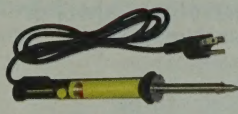
➡ For 15845 TL station Only!

Replacement Handle 15846 TL | \$6.95 ea

➡ For 15845 TL station Only!

Soldering Iron Set**32234 TL | \$14.95 ea**

30W

Soldering Iron Kit**16431 TL | \$7.95 ea****Desoldering Iron****16922 TL | \$6.95 ea**

★ Built in Solder Sucker

Solder Station**32580 TL | \$59.95 ea****Ball Style Tip Cleaner****34716 TL | \$5.95 ea****Benchtop Smoke Absorber****15166 TL | \$32.99 ea**

Carbon Filter

**Solder Mini Station****32586 TL | \$14.95 ea****Mini Solder Sucker****20041 TL | \$3.95 ea****Antistatic Solder Sucker 15859 TL | \$6.95 ea****Hot Air Rework Station 16121 TL | \$99.95 ea**

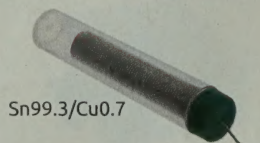
Hot air repair/rework station for SMT devices. Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/etc. devices. Adj. air flow and temperature. Temperature range: 150 deg.-500deg. "C".

16123-TL QFP 10 X 10 (mm),
16124-TL QFP 14 X 14 (mm),
16122-TL Single 2.5mm Dia.,
16128-TL Single 4mm Dia.

Visit www.mpja.com for more nozzles

**Solder 40/60 Rosin Core****32330 TL | 1mm | \$7.95 ea**

Pb60/Sn40

**10gm Lead Free Solder****32056 TL | \$2.99 ea**

Sn99.3/Cu0.7

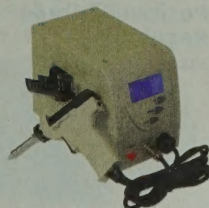
Desoldering Station for Circuit Repair**19034 TL | \$119.95 ea**

Economical desoldering station designed for use with lead free solders. Ergonomic pistol grip Head with trigger for rapid removal of solder. Displays both the Set Point & the Actual Tip temperature. Temp. Range: 160-480Deg. "C".

Watts: 80W running/130W cold start heat-up Power: 115VAC/ 60Hz.

Features: Internal vacuum pump, LCD Display, electronic temperature control, PTC Ceramic Heater, Readout in "F" or "C". 3ft. cable/hose length. Includes: 0.8, 1.0 & 1.3mm tips & 3 filter/traps.

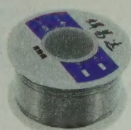
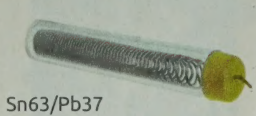
Replacement parts Available at www.mpja.com

**Solder 60/40 Rosin Core****33593 TL | 1mm | \$9.95 ea****33594 TL | .6mm | \$9.95 ea**

Sn60/Pb40

115ft.

Spool ➡

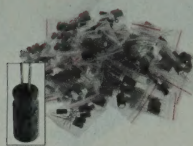
**10gm 63/37 Solder****32775 TL | \$1.99 ea**

Sn63/Pb37



260pcs Electrolytic Capacitor Assortment

32531 CR | \$10.95 ea



400pcs Monolithic Ceramic Capacitor Assortment

32534 CM | \$10.95 ea

50V



360pcs TO-92 Transistor Assortment

32376 QT | \$8.95 ea



150pcs Brass Standoff Kit

33401 HD | \$3.95 ea



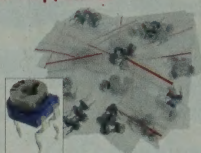
520pcs 1/4W Resistor Assortment

32037 RS | \$4.95 ea



65pcs Variable Resistor Kit Horizontal Mount

32359 VR | \$4.95 ea



50pcs Variable Resistor Kit Vertical Mount

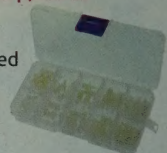
32358 VR | \$3.95 ea



88pcs Nylon Standoff Kit

33372 HD | \$4.95 ea

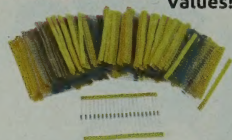
M3-0.5 threaded



2600pcs 1/4W Resistor Assortment

33418 RS | \$14.95 ea

130 Values!!



70pcs 16VDC Electrolytic Capacitor Assortment

32532 CR | \$5.95 ea



50pcs Variable Resistor Kit Vertical Mount

32809 VR | \$12.95 ea



6mm Shaft

50pcs Resettable Thermal Fuses Kit

33414 FU | \$5.95 ea



230pcs 2W Resistor Assortment

32763 RS | \$9.95 ea



190pcs Polyester Cap Kit

33416 CR | \$6.95 ea



100pcs Ceramic Capacitor Kit

33413 CR | \$3.95 ea



50pcs GMA (5X20mm) Fuse Assortment

32762 FU | \$4.95 ea



255pcs Diode and Rectifier Assortment

33412 DI | \$6.95 ea



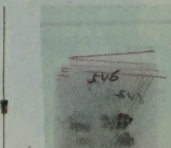
140pcs 1/2W Zener Diode Assortment

33028 DI | \$3.95 ea



70pcs 1W Zener Diode Assortment

33027 DI | \$4.95 ea



6 color SPST-NO Push-button Button Set

32728 SW | \$1.95 ea



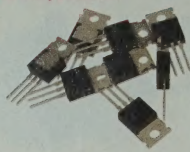
58pcs Plastic Gear Assortment

32183 HD | \$7.95 ea



8pcs 5-24V Positive Voltage Regulators Kit

32375 RG | \$2.95 ea



80pcs 78L Series Positive Voltage Regulator Kit

33417 RG | \$4.95 ea



60pcs 79L Series Negative Voltage Regulator Kit

33415 RG | \$4.95 ea



Selectable Output Bench Supply

29902 PS | \$16.95 ea

P/N: 9902-PS
Input: 90-250VAC 60Hz
Outputs: 3, 4.5, 6, 7.5, 9, 12VDC @ 2000mA Selectable
Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.



0-15VDC @ 1A Linear Bench Supply

29319 PS | \$32.00 ea



0-60VDC @ 10A Linear Bench Supply

29960 PS | \$279.95 ea



0-30VDC @ 3A Linear Bench Supply

29601 PS | \$99.95 ea



0-50VDC @ 3A Linear Bench Supply

29612 PS | \$109.95 ea



Dual 0-30VDC @ 3A Bench Supply

29623 PS | \$169.95 ea

Input: 110 VAC 60Hz
Outputs: #1: 0-30VDC @ 0-3A #2: 0-30VDC @ 0-3A #3: 5VDC @ 3A fixed
Dual Constant Voltage or Current supply with 4 LED meters that displays Volts & Amps. Selectable Independent, Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A). RMS ripple: 20mVp/p (CV) 50mA/p (CC) Front panel output Binding Posts. Metal case & rubber feet. Internal Temp. controlled fan



0-18VDC @ 3A Linear Bench Supply

29600 PS | \$64.95 ea

Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A

Constant Voltage or Current
Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LCD displays for output Volts & Amps. .01%+3mV Line / .02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan.



0-30VDC @ 3A Switching Bench Supply

29616 PS | \$53.95 ea



0-30VDC @ 5A Switching Bench Supply

29617 PS | \$69.95 ea



0-30VDC @ 10A Linear Bench Supply

29604 PS | \$189.95 ea



0-30VDC @ 24A Switching Bench Supply

29317 PS | \$259.95 ea



0-30VDC @ 10A Switching Bench Supply

29631 PS | \$109.95 ea

Input: 110 VAC 60Hz
Output: 0-30VDC, 0-10A
Constant Voltage/Current
Specifications/Features: Adjustable Voltage/adjustable Current limit. Enclosed regulated switching bench supply with backlit LCD display for output Volts & Amps. 0.2% +10mV Line/0.2%+5mV Load regulation, <100mV RMS max ripple. Binding Posts Out



0-120VDC @ 3A Linear Bench Supply

29313 PS | \$285.95 ea

Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-3A
Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV RMS ripple. Front panel output Binding Posts & Terminal strip for remote Voltmeter Sensing at the load.



0-120VDC @ 1A Linear Bench Supply

29312 PS | \$139.95 ea



0-30VDC @ 19A Linear Bench Supply

29950 PS | \$289.95 ea



0-50VDC @ 30A Linear Bench Supply

29970 PS | \$745.00 ea



0-30VDC @ 16A Switching Bench Supply

29316 PS | \$169.95 ea



Handheld Adjustable Supply

32577 PS | \$149.95 ea

P/N: PS2002H
Input: 90-265VAC 50/60Hz
Output: 0-30VDC @ 50W
Limits: 3.75A @ 12V 1.6A @ 30V
Handheld switching supply with backlit LCD display and Adjustable Current Limit. Output On/Off button, USB Select button, Store & Recall function Button, Adjust Up/Down Buttons. Output Adjustable in 10mV/10mA increments.



Note: Very Heavy Power Supply Must Be Shipped by Motor Carrier (Truck)



GENERAL SPECIFICATIONS

RoHS Compliant



High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- Overvoltage, Overcurrent, Short Circuit Protected
- No minimum load
UL/CANADA/USA/CE listed.
- 100% Full Load Burn-in Tested
Full rated to 50°C

MTBF: 100,000 Hours

Operating Temp. & Humidity: -10° C to +50° C
20%-93% Non Condensing

Storage Temp. & Humidity: -20° C to +85° C
20%-95% Non Condensing

Cooling: Convection

Approvals/Standards: cULus Ref. No.: E22014
Safety: GB4943, UL60950, EN60950
EMC: GB9254, EN55022 class B, EN55024
-3-2/3 EN61000-4-2/3/4/5/6/8/11

Line Regulation (Full Load): < +/- 0.5%

Load Regulation: .05% (0-100%)

Inrush Current: 20A/115V, 40A/230V

Input Leakage Current: <0.7mA @ 230VAC

Output Adjustment Range: +/- 10%

Overload Protection: 40/60W:110-150%-100/150W: 110-130%

Over Voltage Protection: 115-150%

Rise Time: 50mS Full Load (Typical)

Hold Up Time: 20mS Full Load (typical)

Withstand Voltage (1 Min.): Input to Output: 3.0KV AC
Input to Frame/Ground: 1.5KV AC
Output to Frame/Ground: 0.5KV AV

15W SUPPLIES

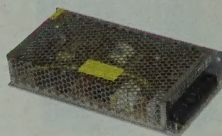


STOCK #	OUTPUT	PART #
18438-PS	5V/3A	HF15W-SPL-5
18439-PS	12V/1.3A	HF15W-SPL-12
18440-PS	24V/0.6A	HF15W-SPL-24
18441-PS	48V/0.3A	HF15W-SPL-48

Qty: 1-9 \$15.99 ea | Qty: 10-99 \$14.95

Input: 85-264 VAC 47-63Hz Universal
L: 4.0" W: 1.82" H: 1.0" Wt: .2lb

100W SUPPLIES



STOCK #	OUTPUT	PART #
16010-PS	3.3V/20A	HF-100W-SF3.3
16011-PS	5V/20A	HF-100W-SF5
16012-PS	7.5V/13.5A	HF-100W-SF7.5
16014-PS	15V/6.7A	HF-100W-SF15
16016-PS	48V/2.2A	HF-100W-SF48

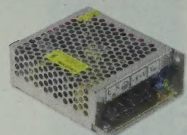
Qty: 1-9 \$26.50 ea | Qty: 10-99 \$25.60

STOCK #	OUTPUT	PART #
16013-PS	12V/8.5A	HF-100W-SF12
16015-PS	24V/4.5A	HF-100W-SF24

Qty: 1-9 \$21.69 ea | Qty: 10-99 \$18.95

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 3.86" H: 1.54" Wt: 1.5lb

25W SUPPLIES

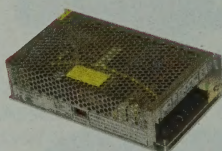


STOCK #	OUTPUT	PART #
17320-PS	3.3V/6A	HF25W-SL-3.3
17321-PS	5V/5A	HF25W-SL-5
17322-PS	12V/2.1A	HF25W-SL-24
17323-PS	15V/1.7A	HF25W-SL-15
17325-PS	48V/0.57A	HF25W-SL-48

Qty: 1-9 \$14.90 ea | Qty: 10-99 \$12.60

Input: 85-264 VAC 47-63Hz Universal
L: 3.88" W: 3.23" H: 1.38" Wt: .6lb

150W SUPPLIES



STOCK #	OUTPUT	PART #
16017-PS	5V/30A	HF-150W-SF5
16018-PS	7.5V/20A	HF-150W-SF7.5
16019-PS	9V/17A	HF-150W-SF9
16033-PS	28V/5.5A	HF-150W-SF28
16034-PS	36V/4.2A	HF-150W-SF36

Qty: 1-9 \$28.60 ea | Qty: 10-99 \$27.95

STOCK #	OUTPUT	PART #
16020-PS	12V/12.5A	HF-150W-SF12
16032-PS	24V/6.5A	HF-150W-SF24

Qty: 1-9 \$26.85 ea | Qty: 10-99 \$23.69

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb

40W SUPPLIES



STOCK #	OUTPUT	PART #
16000-PS	5V/8A	HF-40W-SL5
16001-PS	12V/3.5A	HF-40W-SL12
16002-PS	15V/2.8A	HF-40W-SL15
16003-PS	24V/1.8A	HF-40W-SL24
16004-PS	48V/0.8A	HF-40W-SL48

Qty: 1-9 \$16.00 ea | Qty: 10-99 \$15.49

Input: 85-264 VAC 47-63Hz Universal
L: 5.08" W: 3.86" H: 1.57" Wt: 1.1lb

60W SUPPLIES

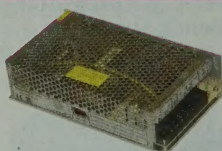


STOCK #	OUTPUT	PART #
16005-PS	5V/12A	HF-60W-SL5
16006-PS	12V/5A	HF-60W-SL12
16007-PS	15V/4A	HF-60W-SL15
16008-PS	24V/2.5A	HF-60W-SL24
16009-PS	48V/1.3A	HF-60W-SL48

Qty: 1-9 \$19.95 ea | Qty: 10-99 \$18.90

Input: 85-264 VAC 47-63Hz Universal
L: 6.3" W: 3.86" H: 1.54" Wt: 1.2lb

240W SUPPLIES



STOCK #	OUTPUT	PART #
18434-PS	5V/40A	HF-240W-SF5
18437-PS	48V/5A	HF-240W-SF48

Qty: 1-9 \$45.00 ea | Qty: 10-99 \$38.90

STOCK #	OUTPUT	PART #
18435-PS	12V/18A	HF-240W-SF12
18436-PS	24V/10A	HF-240W-SF24

Qty: 1-9 \$34.95 ea | Qty: 10-99 \$32.49

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb

\$6.95* FLAT RATE SHIPPING



*Restrictions Apply

Toll Free Orders: 1-800-652-6733

Heat Sink Compound, #860, Squeeze Tube MG Chemical

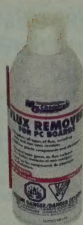
30389 MG
140gm | \$15.26 ea



Will Not Dryout
Harden or
Separate

Flux Remover #4140 400gm MG Chemical

30364 MG
400gm | \$13.34 ea



Removes all Rosin,
Non-rosin, No-clean,
Ionic & Non-ionic Flux &
Residue

Silicone Conformal Coating, #422 MG Chemical

30366 MG
340gm | \$18.95 ea



Protects Against
Moisture, Dirt,
Arcing & Shorts

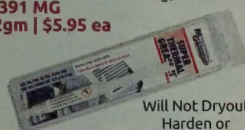
Isopropyl Alcohol 99.9%, #824, Quart Bottle MG Chemical

30373 MG
1qt | \$12.95 ea



Thermal Grease II, #8616, Syringe MG Chemical

30391 MG
8.2gm | \$5.95 ea



High Thermal
conductivity

Will Not Dryout
Harden or
Separate

Electrosolve Contact Cleaner, #409B MG Chemical

30361 MG
140gm | \$7.75
30362 MG
340gm | \$13.34



Heavy Duty Flux Remover, #413B MG Chemical

30363 MG
425gm | \$17.95 ea



Isopropyl Alcohol Wipe, #824-W MG Chemical

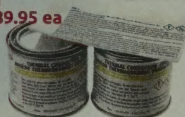
30374 MG
pkg. 25 | \$11.45



Cleaner with
99.9% pure
Isopropyl
Alcohol

Thermal Conductive Adhesive, #8329TCS, Slow Cure MG Chemical

31968 MG
200ml | \$89.95 ea



Super Cold 134, #403A MG Chemical

30355 MG
185gm | \$10.19
30356 MG
400gm | \$13.87



100% Ozone Safe
HFC134A gas
(R-134)

Contact Cleaner with Silicone, #404B MG Chemical

30357 MG
140gm | \$7.85
30358 MG
340gm | \$12.39



Alcohol Wipes, General purpose, #8241-T, MG Chemical

30375 MG | \$8.95 ea

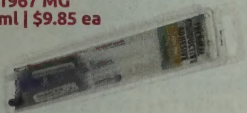


General Purpose
Cleaner with 70% pure
Isopropyl Alcohol

75Wipes

Thermal Conductive Adhesive, #8329TCS, Slow Cure MG Chemical

31967 MG
6ml | \$9.85 ea



Super Wash Cleaner/Degreaser, #406B MG Chemical

30359 MG
425gm | \$15.26 ea



Ozone Safe-No Residue
Non-conductive
Safe on plastics

Nu-Trol Control Cleaner, #401B MG Chemical

30350 MG
140gm | \$7.65 ea



Liquid Rosin Flux, #835 Bottle MG Chemical

30382 MG
100ml | \$8.95 ea



Thermal Conductive Adhesive, #8329TCM, Medium Cure MG Chemical

31969 MG
6ml | \$9.95 ea



Acrylic Conformal Coating, #419C MG Chemical

30365 MG
340gm | \$17.95 ea



Super Duster 134, #402A MG Chemical

30351 MG
285gm | \$9.51
30352 MG
450gm | \$14.79



100% Ozone Safe
HFC134A gas
(R-134)

Rubber Renue, #408A Bottle MG Chemical

30360 MG
125ml | \$7.95 ea



Cleaner-Softner for
rubber belts & rollers

Extreme Electrical Conductivity Adhesive, #8330S Silver Filled MG Chemical

30379 MG
21gm | \$65.00 ea



Super Shield, Nickel Coating, #841, MG Chemical

30384 MG
340gm | \$36.95 ea



Conductive Nickel
Shielding Paint
Reduces EMI/RFI

Super Duster 152, #402B MG Chemical

30353 MG
285gm | \$7.45
30354 MG
400gm | \$9.95



Ozone Safe 99%
1,1-Difluoroethane

Solder Braid MG Chemical

30369 MG
#424 | \$2.85/5ft
30370 MG
425 | \$2.95/5ft
30371 MG
#426 | \$3.15/5ft
30372 MG
#442 | \$10.95/25ft



Oxygen Free
Copper

**Adhesive, Conductive
#8331, Silver Filled
MG Chemical**

30380 MG
14gm | \$39.95 ea



**3D PRINTER
COLOR FILIMENT**

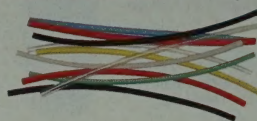
Material PLA:
Polylatic Acid

Dia: 1.75mm



**1/8" Heat Shrink As-
sortment, 6in. Long,
Color**

16831 HS | \$2.25 ea



**Heat Shrink Assort-
ment, 160Pcs. 4" Black**

32258 HS
\$11.95 ea




**Conductive Grease,
#846 Carbon Filled,
MG Chemical**

30386 MG
80gm | \$15.95 ea



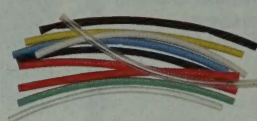
1kg Spools

33865 MC | Trans
33866 MC | White
33867 MC | Black
33868 MC | Red
33869 MC | Yellow
33867 MC | Green
33868 MC | Blue
33869 MC | Orange
33904 MC | Wood  \$19.95

\$24.95 ea

**3/16" Heat Shrink
Assortment, 6in. Long,
Color**

16832 HS | \$2.50 ea



**Heat Shrink Assort-
ment, 4" Long, Color**

16843 HS
\$11.95 ea



**White Lithium Grease,
#8461 Squeeze Tube,
MG Chemical**

30387 MG
85ml | \$7.15 ea



**Potting Compound,
#832C Clear
MG Chemical**

30377 MG
375ml | \$29.61 ea



**1/4" Color Heat Shrink
Assortment, 6in. Long**

16833 HS | \$2.75 ea



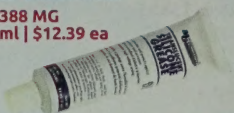
**Heat Shrink Assort-
ment, 2-1/2" Long,
Black**

16835 HS
\$10.95 ea



**Silicone Grease,
#8462 Translucent
Squeeze Tube
MG Chemical**

30388 MG
85ml | \$12.39 ea



**Potting Compound,
#832B Black
MG Chemical**

30376 MG
375ml | \$30.57 ea



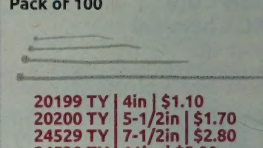
**3/8" Color Heat Shrink
Assortment, 6in. Long**

16834 HS | \$2.95 ea



**Natural Nylon Wire
Ties**

Pack of 100



20199 TY 4in | \$1.10
20200 TY 5-1/2in | \$1.70
24529 TY 7-1/2in | \$2.80
24530 TY 11in | \$5.00

**Red GLPT Varnish,
#4228 Bottle
MG Chemical**

30367 MG
225ml | \$24.97 ea



**Potting Compound,
#833FRB Flame Retar-
dant - MG Chemical**

30378 MG
375ml | \$43.95 ea



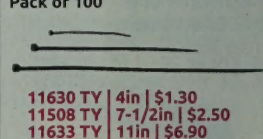
**Black Heat Shrink
Assortment
6in. Long**

16830 HS | \$3.95 ea



**Black Nylon Wire
Ties**

Pack of 100



11630 TY 4in | \$1.30
11508 TY 7-1/2in | \$2.50
11633 TY 11in | \$6.90

**Connector Coat
Black, #4229
Bottle
MG Chemical**

30368 MG
55ml | \$14.95 ea



**Adhesive, Conductive,
#8331S, Silver Filled
MG Chemical**

30381 MG
15GM | \$65.00 ea



**Adhesive/Screw
Mounts for Wire Ties**

33260 TY
\$3.95 pk

Pack of 100



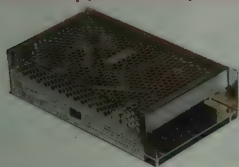
**500pc. 4" Cable Ties
in 5 Colors**

34524 TY | \$4.95 ea



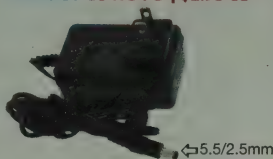
9VDC @ 16.7Amp Meanwell Supply

18367 PS | \$49.95 Now \$14.95 ea



12VDC 750mA USED Unreg. Plug Supply

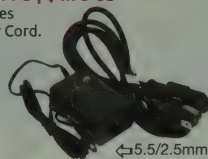
Leader 33475 PD | \$2.95 ea



9VDC 1A Adapter Power Supply Ault

32214 PS | \$4.95 ea

Includes
Power Cord.



Adjustable Boost DC/DC Converter

31397 PS | \$4.95 ea



+5V, +3.3V, +24V & -12V Meanwell Supply

18366 PS | \$29.95 ea



12VDC 2.5A Plug Power Supply Netgear

33380 PS | \$6.95 ea



12VDC 2A Adapter Power Supply Sino

32483 PS | \$7.95 ea

Includes
Power Cord.



Adjustable Boost DC/DC Converter with Meter

33525 PS | \$7.95 ea

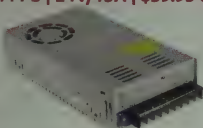


320W Hengfu Supplies

31340 PS | 5V/60A | \$59.95 ea

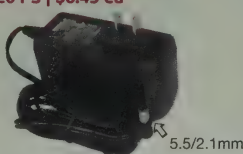
31342 PS | 12V/25A | \$59.95 ea

31344 PS | 24V/13A | \$59.95 ea



5VDC 4A Plug Power Supply Openpeak

18520 PS | \$6.45 ea



12VDC 2.5A Used Adapter Power Supply

Leader 30201 PS | \$5.95 ea



Adjustable Buck DC/DC Converter

30148 PS | \$3.95 ea



5V & 12V DC 5A Power Supply

34293 PS | \$8.95 ea



HDD & FDD
Connectors

5VDC 2A Plug USB Power Supply

32736 PS | \$2.95 ea



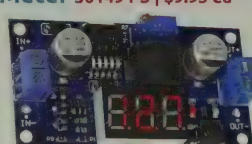
12VDC 3A Adapter Power Supply

34445 PS | \$6.95 ea



Adjustable Buck DC/DC Converter with Meter

30149 PS | \$9.95 ea



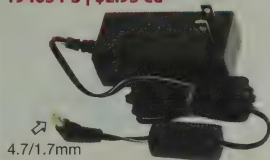
15V @ 3Amp Meanwell Supply

31506 PS | \$42.95 Now \$9.95 ea



9VDC 1A Power Supply Kenwood

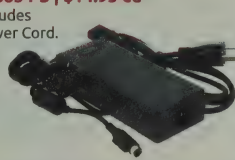
19463 PS | \$2.95 ea



24VDC 5A Adapter Power Supply Megmeet

32885 PS | \$14.95 ea

Includes
Power Cord.



Constant Voltage & Current DC/DC Converter

31562 PS | \$4.95 ea



24V @ 2.7Amp SL Power Supply

33786 PS | \$9.95 ea



15VDC 900mA Power Supply iConnect

32486 PS | \$2.50 ea



48VDC 2.08A Adapter Supply XP Power

32492 PS | \$18.95 ea



Adjustable DC/DC Regulator

31800 PS | \$2.95 ea



Chassis Mount Transformers



Selecting Transformers

Volts & Current listed are nominal RMS. Open circuit and loaded values are different. Type of rectifier/filter circuit will effect secondary & output current and they can be very different.

Full wave center tap choke input filter:

Transformer secondary amps are .7 X required output amps.

Full wave center tap cap input filter:

Transformer secondary amps are 1.2 X required output amps.

For Full wave bridge choke input filter:

Transformer secondary amps are = to required output amps

For Full wave bridge cap input filter:

Transformer secondary amps are 1.8 X required output amps.

STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIAM. (L W H)	WT.	1EA
27838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	\$6.75
27839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	\$8.95
27840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	\$15.95
27841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	\$6.95
27842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	\$11.95
27845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	\$18.95
27846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	\$39.95

The Transformers above have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.

500VA 0-130VAC Variable Power Transformer

15162 TR
\$59.95 ea



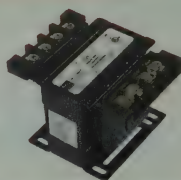
2KVA 0-130VAC Variable Power Transformer

15163 TR
\$114.95 ea



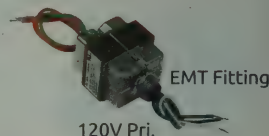
Control Transformer 120/220/240/480V 50VA

31833 TR | \$39.95 ea



Control Transformer 26.5V 40VA

32196 TR | \$7.95 ea



EMT Fitting

120V Pri.

LED Driver 3W Output 85-265VAC Input

31536 PS | \$1.95 ea



LED Driver 10W Output 90-264VAC Input

32817 PS | \$3.95 ea



LED Driver 20W Output 110-260VAC Input

31538 PS | \$5.95 ea



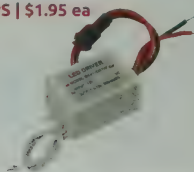
LED Driver 30W Output 110-260VAC Input

31539 PS | \$8.95 ea



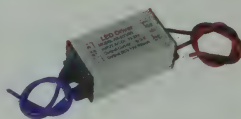
LED Driver 3W Output 12VDC Input

31556 PS | \$1.95 ea



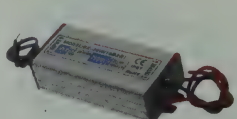
LED Driver 10W Output 12-24VDC/DC Input

31557 PS | \$3.95 ea



LED Driver 20W Output 12-24VDC Input

31558 PS | \$8.95 ea



LED Driver 30W Output 12-24VDC Input

31559 PS | \$8.95 ea



Sealed Lead Acid Rechargeable Batteries

17280 BT | 6V 4Amp | \$7.95 ea
14817 BT | 6V 8Amp | \$19.95 ea
14819 BT | 12V 7Amp | \$22.95 ea



4 Stage Thermoelectric Cooling Module 12VDC

33911 PM | \$39.95 ea



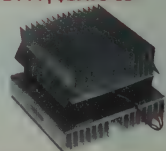
Thermoelectric Cooling Module 127 Couple 12VDC

30207 PM | \$4.98 ea



Peltier Cooling Assembly, 12VDC

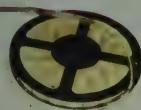
15312 PM | \$29.95 ea



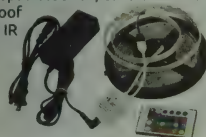
12Vdc 5 Meter Roll LEDs

19434 OP | Cool White | \$12.95 ea
 33111 OP | Med. White | \$12.95 ea
 31362 OP | Red | \$12.95 ea
 19441 OP | Blue | \$12.95 ea

Water Resistant
 IP65 Rated
 PVC Encapsulated
 Strip with wire
 pigtails for con-
 nection.

**5 Meter Roll RGB LED, Controller and Supply**

15541 OP | \$19.95 ea
 PVC encapsulated roll, controller not
 waterproof
 Includes IR
 remote.

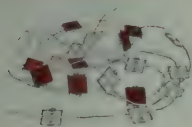
**12VDC 5 Meter Cool White LED Roll**

31192 OP | \$9.95 ea

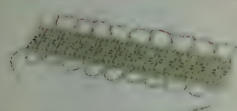
Indoor
 Only!

**12VDC 72 Lumen Cool White 20 Module String**

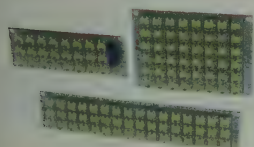
19438 OP | \$14.95 ea

**12VDC 36 Lumen Cool White 20 Module String**

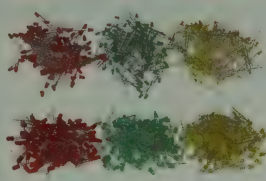
31366 OP | \$12.95 ea

**12VDC Cool White Piranha LED Boards**

32035 OP | 3 x 8 LEDs | \$4.95 ea
 33081 OP | 3 x 16 LEDs | \$9.95 ea
 33070 OP | 6 x 8 LEDs | \$9.95 ea

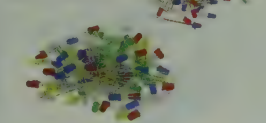
**Bulk Pack LEDs 100 per pack**

15101 OP | 3mm Red | \$1.95 ea
 15102 OP | 3mm Green | \$1.95 ea
 15103 OP | 3mm Yellow | \$1.95 ea
 15104 OP | 3mm Blue | \$2.95 ea
 15108 OP | 5mm Red | \$1.95 ea
 15307 OP | 5mm White | \$2.95 ea
 15308 OP | 5mm Green | \$1.95 ea
 15309 OP | 5mm Yellow | \$1.95 ea
 31363 OP | 5mm Blue | \$3.95 ea

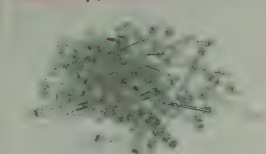
**Assortment Pack LEDs 100 per pack**

32674 OP | 3mm | \$2.95 ea
 32066 OP | 5mm | \$2.95 ea

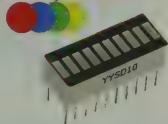
20 pieces each
 of: Red, Yellow,
 Green, Blue
 and White LEDs.

**Flashing RGB 5mm LEDs Pack of 100**

32889 OP | \$4.95 ea

**10 Segment LED Bargraph**

32253 OP | Red | \$1.75ea
 32325 OP | Blue | \$1.75ea
 32326 OP | Green | \$1.75ea
 32327 OP | Yellow | \$1.75ea

**12VDC 5mm LED Lamps**

30124 LA | Red | \$0.75ea
 30125 LA | Green | \$0.75ea
 30126 LA | Yellow | \$0.75ea
 30127 LA | Blue | \$0.75ea
 30128 LA | White | \$0.75ea

**10 Watt LEDs**

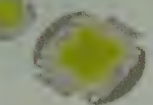
31515 OP | Red | \$3.95 ea
 31516 OP | Green | \$3.95 ea
 31517 OP | Blue | \$2.95 ea
 31183 OP | Warm White | \$2.95 ea
 31518 OP | RGB | \$3.95 ea

Requires heatsink
 and current
 control power
 supply!

**High Lumen Cool White LEDs**

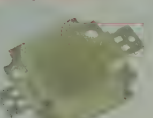
31325 OP | 10 Watt | \$2.95 ea
 31326 OP | 20 Watt | \$7.95 ea
 31327 OP | 30 Watt | \$9.95 ea

Requires
 heatsink
 and current
 control power
 supply!

**10 Watt Infrared LEDs**

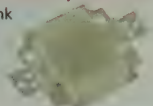
32621 OP | 730nm | \$22.95 ea
 32622 OP | 850nm | \$10.95 ea
 32623 OP | 940nm | \$9.95 ea

Requires
 heatsink
 and current
 control power
 supply!

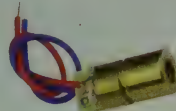
**10 Watt Ultraviolet LEDs**

32614 OP | 365-367nm | \$49.95 ea
 32616 OP | 385-390nm | \$14.95 ea
 32617 OP | 395-400nm | \$14.95 ea
 32618 OP | 410-415nm | \$10.95 ea
 32619 OP | 420-430nm | \$9.95 ea

Requires heatsink
 and current
 control power
 supply!

**3VDC Mini LASER Head 635nm <5mw**

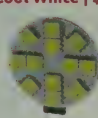
19566 LZ | \$2.25 ea

**5VDC LASER Diode Red Crosshair Pattern <5mw**

33029 LZ | \$2.95 ea

**12VDC Bi-Pin G-4 LED Modules**

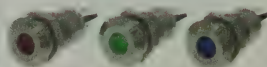
33410 OP | Warm White | \$1.95 ea
 33411 OP | Cool White | \$1.95 ea

**12V AC/DC 3Watt Cool White MR-16 LED**

31975 OP | \$3.95 ea

**12V AC/DC LED Indicators**

32750 LA | Red | \$2.49 ea
 32751 LA | Green | \$2.49 ea
 32752 LA | Blue | \$2.49 ea

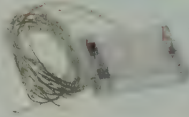
**12V AC/DC 22mm LED Indicators**

31087 LE | Red | \$2.95 ea
 31088 LE | Green | \$2.95 ea
 31089 LE | Yellow | \$2.95 ea

**50 Micro LEDs in a 5 Meter String**

31985 OP | Cool White | \$5.95ea
 31984 OP | RGB Flashing | \$9.95ea

Runs on 3
 "AA" Cells



Solid State Relay

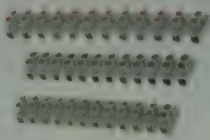
31931 RL | 10 Amp | \$5.95 ea
31932 RL | 25 Amp | \$8.95 ea
31933 RL | 40 Amp | \$10.95 ea

DC-AC
3-32VDC control voltage, 24-480VAC output voltage SPST-NO AC only



12 Position Euro Block

32940 TS | 10Amp | \$1.75 ea
32941 TS | 20Amp | \$1.85 ea
32675 TS | 30Amp | \$1.95 ea



Threaded locking connector pair

32420 PL | 2 Pin | \$1.95 ea
32421 PL | 3 Pin | \$1.95 ea
32423 PL | 5 Pin | \$1.95 ea
32426 PL | 8 Pin | \$1.95 ea



UL Hook-Up Wire



Handy spool of 100ft. General Purpose 300 Volt, 105Deg. "C", UL 1007/1569 Copper conductor Hook-up wire.

Solid State Relay

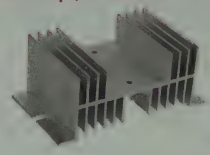
33980 RL | 10 Amp | \$6.95 ea
33981 RL | 25 Amp | \$9.95 ea
33982 RL | 40 Amp | \$11.95 ea

DC-DC
3-32VDC control voltage, 5-60VDC output voltage SPST-NO DC only



Heat Sink for Solid State Relay

32434 HK | \$4.95 ea



Snap locking connector pair

32567 PL | 2 Pin | \$2.89 ea
32568 PL | 3 Pin | \$2.89 ea
32569 PL | 4 Pin | \$2.89 ea
32570 PL | 5 Pin | \$2.89 ea



Solid State Relay

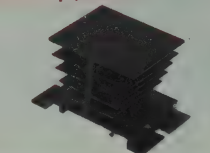
33984 RL | 10 Amp | \$6.95 ea
33985 RL | 25 Amp | \$8.95 ea
33986 RL | 40 Amp | \$11.95 ea

AC-AC
80-280VAC control voltage, 24-480VAC output voltage SPST-NO AC only



Heat Sink for Solid State Relay

32052 HK | \$3.95 ea



200Amp Binding Posts Red & Black Pair

32937 PL | \$4.95 ea



SOLID 22AWG

STOCK #	DESC.	WT. 4
32270-WI	Solid Red	\$8.95
32271-WI	Solid Black	\$8.95
32272-WI	Solid Yellow	\$8.95
32273-WI	Solid Blue	\$8.95
32274-WI	Solid White	\$8.95
32275-WI	Solid Green	\$8.95

STRANDED 22AWG

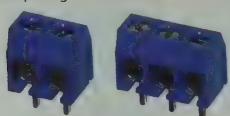
STOCK #	DESC.	WT. 4
32280-WI	Stranded Red	\$8.95
32281-WI	Stranded Black	\$8.95
32282-WI	Stranded Yellow	\$8.95
32283-WI	Stranded Blue	\$8.95
32284-WI	Stranded White	\$8.95
32285-WI	Stranded Green	\$8.95

STRANDED 18AWG

STOCK #	DESC.	WT. 8
32290-WI	Stranded Red	\$12.95
32291-WI	Stranded Black	\$12.95
32292-WI	Stranded Yellow	\$12.95
32293-WI	Stranded Blue	\$12.95
32294-WI	Stranded White	\$12.95
32295-WI	Stranded Green	\$12.95

PC Mount Terminal Strip

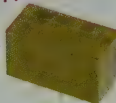
18318 TS | 2 Position | \$0.39 ea
18319 TS | 3 Position | \$0.49 ea
5mm spacing end stackable



DPDT DIP Relay

32555 RL | 3VDC | \$1.29 ea
32556 RL | 5VDC | \$1.29 ea
32558 RL | 9VDC | \$1.29 ea
32559 RL | 12VDC | \$1.29 ea
32560 RL | 24VDC | \$1.29 ea

HK19F Series DC relays contacts rated 1A/125VAC or 2A/30VDC



Adjustable 3 Axis Stage 33383 MI | \$169.95 ea



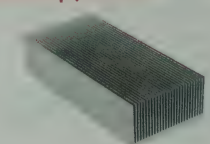
5.5mm Power Jacks

32104 PL | 5.5/2.1mm | \$1.49 ea
32105 PL | 5.5/2.5mm | \$1.49 ea
Metal Chassis mount connector with solder tabs



5-7/8" x 2-3/4" x 1-7/16" Aluminum Heat Sink

32088 HK | \$12.95 ea



2 Axis X/Y Stage 33402 MI | \$139.95 ea



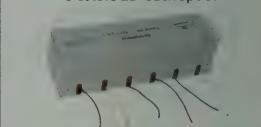
Solid 22Awg Hook Up Wire Set

32267 WI | \$15.95 ea
6 colors 25' each spool



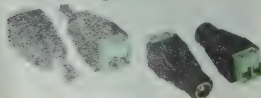
Stranded 22Awg Hook Up Wire Set

32269 WI | \$15.95 ea
6 colors 25' each spool



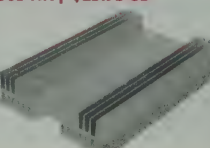
5.5mm Power Adaptors

19452 PL | 2.1mm Plug | \$0.89 ea
19453 PL | 2.5mm Plug | \$0.89 ea
19454 PL | 2.1mm Jack | \$0.89 ea
19455 PL | 2.5mm Jack | \$0.89 ea
Adapts wire leads to coaxial/barrel power connectors Screw terminals to 5.5mm Q/D plugs and Jacks.



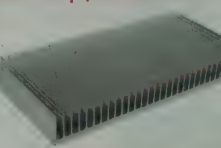
10" x 7" x 2" Aluminum Heat Sink

33305 HK | \$23.95 ea



15-3/4" X 7-13/16" X 2" Aluminum Heat Sink

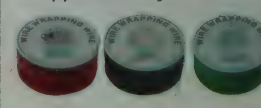
33306 HK | \$59.95 ea



Wire Wrap Wire 30AWG

33125 WI | Red | \$7.95 ea
33126 WI | Black | \$7.95 ea
33129 WI | Green | \$7.95 ea

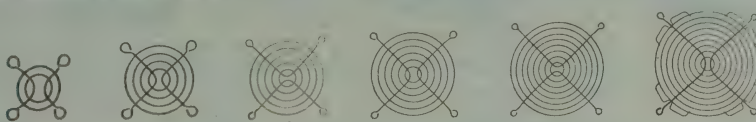
Approximately 650ft.



THERMOCOOL AC FANS
 UL/TUV/CE RoHS Compliant


A	B	C	D	E	F	G	H	I			
STOCK#	FIG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	WT	1EA	12+EA
17771-FN	A	G8025HAS	3-1/8" SQ X 1"	125AC/.13	23	30	SLV.	WIRE	.6	\$9.95	\$8.95
17772-FN	B	G8038HAS	3-1/8" SQ X 1-1/2"	125AC/.14	28	33	SLV.	WIRE	.6	\$14.95	\$12.95
17773-FN	C	G9225HAS	3-5/8" SQ X 1"	125AC/.14	34	40	SLV.	TERM	.5	\$9.95	\$8.95
17774-FN	D	G12025HAS	4-11/16" SQ X 1"	125AC/.20	66	42	SLV.	TERM	.75	\$9.95	\$8.95
17775-FN	E	G12038HAS	4-11/16" SQ X 1-1/2"	125AC/.28	95	48	SLV.	TERM	1.1	\$12.95	\$10.95
17776-FN	E	G12038MAB	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	BALL	TERM	1	\$15.95	\$12.95
17777-FN	E	G12038MAS	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	SLV.	TERM	1.1	\$11.95	\$9.95
17778-FN	F	G13538HAS	5-5/16" SQ X 1-1/2"	125AC/.34	122	53	SLV	WIRE	1.2	\$14.95	\$12.95
17779-FN	G	G15050HAS	6" SQ X 2"	125AC/.40	198	58	SLV	WIRE	1.9	\$22.95	\$19.95
17780-FN	H	G17050HASB	6-3/4" RND X 2"	125AC/.40	198	59	BALL	TERM	1.8	\$22.95	\$19.95
17781-FN	I	G17050HAST	6-3/4" X 6 X 2"	125AC/.40	198	59	BALL	TERM	1.9	\$22.95	\$19.95

FAN GUARDS

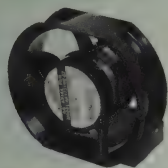
 PICTURES ARE
 REPRESENTATIVE OF
 THE STYLE AND MAY
 NOT BE EXACT.


STOCK#	FIG.	FAN SIZE	STYLE	MOUNTING	MAT.	FINISH	WT.	1EA	10+EA
18383-FN	A	1-9/16"/40MM	OFFSET	4 CORNERS	STEEL	CHROME	.01	\$0.99	\$0.89
18384-FN	B	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	CHROME	.03	\$0.99	\$0.89
18386-FN	D	3-1/8"/80MM	OFFSET	4 CORNERS	STEEL	CHROME	.04	\$1.25	\$0.99
18387-FN	E	3-5/8"/90MM	OFFSET	4 CORNERS	STEEL	CHROME	.05	\$1.25	\$0.99
18388-FN	F	4-11/16"/120MM	OFFSET	4 CORNERS	STEEL	CHROME	.08	\$1.39	\$1.25
17815-FN	G	5" /127MM	OFFSET	4 CORNERS	STEEL	CHROME	.13	\$0.49	\$0.49

120VAC 6-3/4" Fan

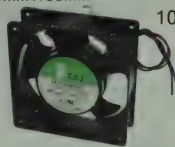
 31876 FN | \$22.95 ea
 172mm X 50mm X 150mm

210cfm


**120VAC 4-11/16" X
1-1/2" Fan**

 33012 FN | \$8.95 ea
 120mm X 38mm

105cfm


**120VAC 3-1/2" x
1-1/2" Fan**

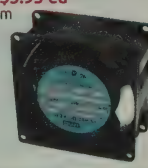
 33010 FN | \$7.95 ea
 80mm X 38mm

30cfm


**230VAC 3-1/2" X
1-1/2" Fan**

 33489 FN | \$5.95 ea
 80mm X 38mm

28cfm

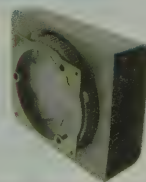

Plastic Guard & Filter

 33403 FN | 80mm | \$1.79 ea
 33404 FN | 120mm | \$1.95 ea

**Louvered Fan Guard
with Dust Filter for
4-11/16" (120mm) Fan**

 33406 FN
 \$3.95 ea

**Cabinet Vent with Dust
Filter and Bracket**

 33405 FN
 \$9.95 ea

4 plugs 27" Fan Cord

30347 FN | \$1.95 ea


5VDC 2-3/8" X 1" Fan

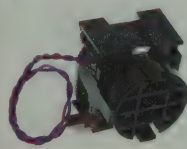
 33704 FN | \$2.95 ea
 60mm X 25mm

19cfm


**5VDC 1-9/16" X
3/8" Fan/Blower**

34467 FN | \$3.95 ea

~4.6cfm


 Detachable
 flow
 director

5VDC 1-9/16" X 3/8" Fan

 31854 FN | \$2.95 ea
 40mm X 10mm

~6cfm


5VDC 1-9/16" X 1/2" Fan

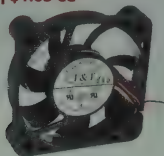
 31414 FN | \$1.95 ea
 40mm X 13mm

8cfm



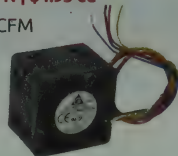
12VDC 2" X 3/8"
T&T Fan 50mm X 10mm
12773 FN | \$1.65 ea

9 CFM



12VDC 1-1/2" X 1-1/8"
Delta Fan 38mm X 28mm
33157 FN | \$4.95 ea

~17CFM



12VDC 2-3/8" X 3/4"
Delta Fan 60mm X 20mm
32786 FN | \$2.95 ea

~13 CFM



12VDC, 2-3/8" X 1"
Jamicon Fan 60mm X 25mm
17526 FN | \$2.95 ea

~17CFM



12VDC 2-3/8" X 1"
Boxer Fan 60mm X 25mm
33482 FN | \$2.95 ea

13.4CFM



12VDC 2-3/4" X 3/4"
AVC Fan 70mm X 20mm
32788 FN | \$2.95 ea

~54 CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34412 FN | \$4.95 ea

42CFM Max

Speed
Varies with
Temp.



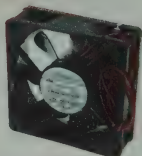
12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
32685 FN | \$5.95 ea

~25 CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34550 FN | \$2.95 ea

25CFM



12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
33480 FN | \$2.49 ea

35CFM



12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
34001 FN | \$2.95 ea

35CFM



12VDC 3-5/8" X 1 1/16" Fan 92mm X 25mm
19387 FN | \$5.95 ea



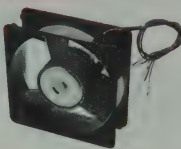
12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
33484 FN | \$2.95 ea

31CFM



12VDC 4-11/16" X 1-1/2" Fan 120mm X 38mm
33923 FN | \$8.95 ea

85CFM



12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
32610 FN | \$4.95 ea

90CFM



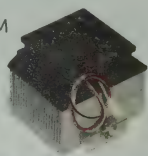
12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
31203 FN | \$4.95 ea

108CFM



12VDC Fan & Heatsink
17045 HK | \$4.95 ea
60mm X 80mm X 64mm

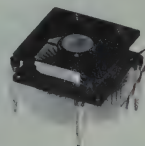
~14CFM
Fan



12VDC Fan & Heatsink
33477 HK | \$19.95 ea
50mm X 50mm X 30mm

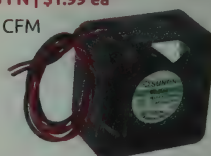


12VDC Fan & Heatsink
18710 HK | \$4.95 ea
Fan 80mm X 80mm X 25mm



24VDC 1-9/16" X 3/4"
Sunon Fan 40mm X 20mm
33785 FN | \$1.99 ea

~7.7 CFM



24VDC 2-3/8" X 13/16"
Fan Globe 60mm X 20mm
33483 FN | \$1.95 ea

~13 CFM



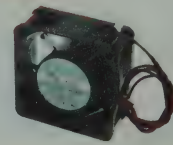
24VDC 4-11/16" X 1"
Fan 125mm X 25mm
32921 FN | \$5.95 ea

~80 CFM



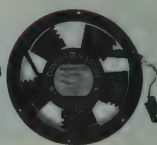
24VDC 4-11/16" X 1-1/2"
NMB Fan 120mm X 38mm
34410 FN | \$8.95 ea

83CFM



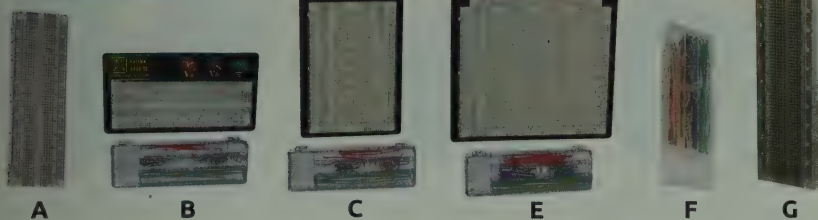
24VDC 6-3/4" X 2"
Fan 172mm X 51mm
19297 FN | \$19.95 ea

235CFM



Restrictions
Apply

Solderless Breadboards



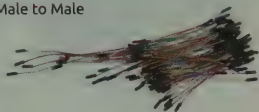
White ABS plastic body (except G clear), B, C & E come with metal mounting base. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards, Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESC.	SIZE L X W	WT.	1EA	10+EA
24443-TE	A	830 point	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95
24444-TE	B	830 point 3 Binding Post and Jumper Kit	7-7/8" X 4-1/8"	.8	\$9.95	\$8.95
24445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	\$12.95	\$12.45
24447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	2	\$22.95	\$21.95
27027-TE	F	140 Piece 22 AWG Jumper Wire Kit		.3	\$3.95	\$3.49
18103-TE	G	830 point Clear ABS Body	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95

65 Piece Breadboard Jumper Pin Set

30116 PL | \$3.95 ea

Male to Male



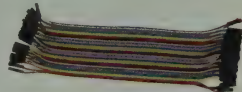
40pc Header Jumper

30117 PL | F to F | \$3.95 ea

31217 PL | M to M | \$3.95 ea

31218 PL | M to F | \$2.72 ea

M = Male F = Female



Powered Breadboard

35125 TE | \$99.95 ea



★ +/- 0-15VDC
& +5V Supplies

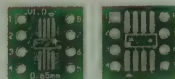
Powered Breadboard

30176 TE | \$10.95 ea



8 Pin SOP Adapter Board Double Sided

31456 PB | \$0.59 ea



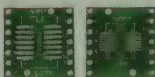
10 Pin SOP Adapter Board Double Sided

31457 PB | \$0.59 ea



14 Pin SOP Adapter Board Double Sided

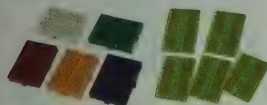
31864 PB | \$0.69 ea



Proto Board Special

33353 MI | \$6.95 ea

5 pieces of 170 tie point breadboard and 5 pieces of 170 tie point proto board for one low price.



230 Tie Point Mini Solderless Breadboard, Unmounted

18862 TE | \$2.95 ea



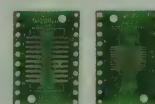
16 Pin SOP Adapter Board Double Sided

31459 PB | \$0.69 ea



20 Pin SOP Adapter Board Double Sided

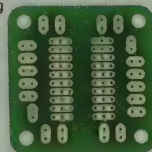
31460 PB | \$0.69 ea



20 pin IC Proto Board

32540 PB | \$1.00 ea

Single Sided .062" FR-4 board, .1" pad spacing



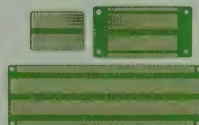
Proto Boards

32891 PB | 170 holes | \$1.00 ea

32892 PB | 276 holes | \$1.95 ea

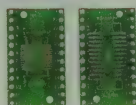
32893 PB | 830 holes | \$4.95 ea

Based on the breadboard pattern



24 Pin SOP Adapter Board Double Sided

31461 PB | \$0.99 ea



28 Pin SOP Adapter Board Double Sided

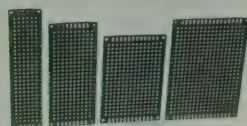
31462 PB | \$0.89 ea



Proto Board Set of 4

32065 PB | \$2.95 set

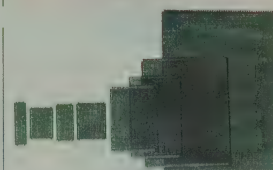
FR-4 boards with 0.1" spacing. One each of the following: 30123 PB, 31091 PB, 31169 PB and 31253 PB.



FR-4 Proto Boards

Double sided, .1" pad spacing, Plated thru copper pads. Sold Individually

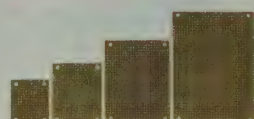
30123 PB | 2cm X 8cm | \$0.99 ea
31091 PB | 4cm X 6cm | \$1.29 ea
31253 PB | 3cm X 7cm | \$1.19 ea
31169 PB | 5cm X 7cm | \$1.79 ea
32011 PB | 8cm X 12cm | \$4.95 ea
32012 PB | 9cm X 15cm | \$5.95 ea
32013 PB | 15cm X 20cm | \$9.95 ea
32014 PB | 20cm X 30cm | \$19.95 ea



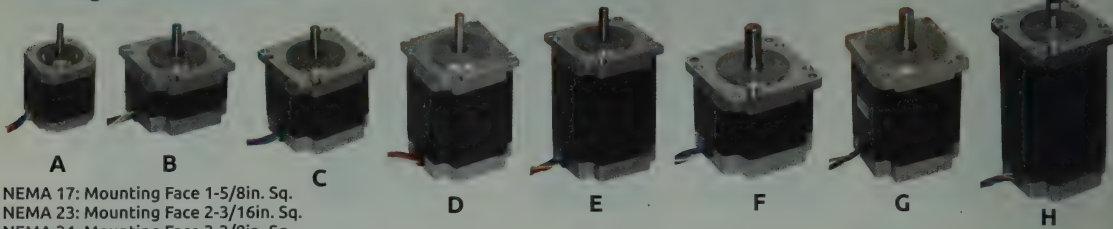
Phenolic Proto Boards

Single sided, .1" pad spacing, unplated copper pads. Sold Individually

15918 PB | 44mm X 39mm | \$0.59 ea
16227 PB | 60mm X 50mm | \$0.79 ea
15914 PB | 82mm X 64mm | \$1.10 ea
15912 PB | 110mm X 80mm | \$1.75 ea



1.8 Deg STEP MOTORS



NEMA 17: Mounting Face 1-5/8in. Sq.

NEMA 23: Mounting Face 2-3/16in. Sq.

NEMA 34: Mounting Face 3-3/8in. Sq.

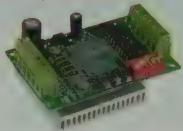
Note: * Indicated Step Motor has a DUAL SHAFT.

Additional Information Available On our website

STOCK #	FIG.	NEMA	VDC	A	W	HLD. TORQ.	P/N	TYPE	LENGTH (BODY)	SHAFT	WT.	1EA
18735-MS	A	17	5.2V	.5	10.5	1.5Kg/cm	42BHH34-050A-18	6 lead	1-3/8"	5 X 17mm	.5	\$9.95
18733-MS	A	17	12V	.31	38	1.6Kg/cm	42BHH34-031A-18G	6 lead	1-3/8"	5 X 17mm/flat	.5	\$9.95
17453-MS	A	17	5.2V	1	5.2	3.2Kg/cm	42BHH48-100E-24	6 lead	2"	5 X 22mm	.84	\$15.95
18734-MS	A	17	12V	.4	30	3.2Kg/cm	42BHH48W-040B-24	6 lead	1-7/8"	5 X 22mm	.76	\$10.95
18686-MS	B	23	2.8V	2	1.4	4.2Kg/cm	57BHH41-200B-21	6 lead	1-5/8"	6.35 X19mm	1	\$17.95
17454-MS	B	23	24V	.34	71	4.4Kg/cm	57BHH41-034A-21	6 lead	1-5/8"	6.35 X19mm	1	\$17.95
17455-MS	C	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21N	6 lead	2-3/8"	6.35 X19mm	1.6	\$14.95
18728-MS	C*	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21DH	6 lead	2-3/8"	6.35 X20mm/Dual	1.6	\$15.95
18189-MS	D	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-25C	6 lead	3"	6.35 X25mm	2.3	\$23.95
18729-MS	D*	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-26DA	6 lead	3"	6.35 X24mm/Dual	2.4	\$23.95
18687-MS	D	23	4.5V	2.5	1.8	18Kg/cm	57BHH76-250E-21G	6 lead	3"	6.35 X25mm	3.4	\$24.95
17456-MS	E	23	3.6V	3	1.2	21Kg/cm	57BHH82-300E-21U	6 lead	3-1/4"	6.35 X19mm	2.6	\$34.95
17458-MS	F	34	3.0V	3	1	23Kg/cm	86BHH76-400C-35	6 lead	3"	13 X35mm	4.7	\$54.95
18190-MS	G	34	6.0VDC	2	3	48Kg/cm	86BHH114-200C-37BS	8 lead	4-17/32"	13 X35mm	8.1	\$68.00
17457-MS	H	34	7.8VDC	2	3.9	63Kg/cm	86BHH150-200A-37BS	8 lead	6"	13 X35mm	11	\$79.95

3A Step Motor Driver

31306 MS | \$14.95 ea



1.5A Step Motor Driver

18187 MS | \$54.90 ea

Free Power Supply



Flexible Helical Cut Couplers

Aluminum Dual Set Screws



33600 HD 3mm to 4mm \$3.95 ea
33601 HD 3mm to 6mm \$3.95 ea
33602 HD 3mm to 1/4" \$3.95 ea
33603 HD 4mm to 5mm \$3.95 ea
33604 HD 4mm to 6mm \$3.95 ea
33605 HD 4mm to 1/4" \$3.95 ea
33606 HD 4mm to 8mm \$3.95 ea
33607 HD 4mm to 10mm \$3.95 ea
33608 HD 5mm to 6mm \$3.95 ea
33609 HD 5mm to 1/4" \$3.95 ea
33610 HD 5mm to 8mm \$3.95 ea
33611 HD 6mm to 6mm \$3.95 ea
33612 HD 6mm to 1/4" \$3.95 ea
33613 HD 6mm to 8mm \$3.95 ea
33614 HD 6mm to 10mm \$3.95 ea
33615 HD 1/4" to 1/4" \$3.95 ea
33617 HD 1/4" to 8mm \$3.95 ea
33619 HD 7mm to 7mm \$3.95 ea
33620 HD 7mm to 8mm \$3.95 ea
33621 HD 8mm to 8mm \$3.95 ea
33622 HD 8mm to 10mm \$3.95 ea
33623 HD 10mm to 10mm \$3.95 ea

Rigid Shaft Coupler

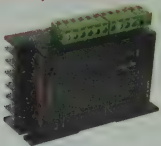
33557 HD | 5mm to 5mm | \$2.95 ea

33560 HD | 5mm to 8mm | \$2.95 ea

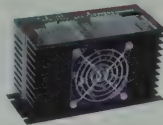


3.5A Step Motor Driver

32383 MS | \$19.95 ea

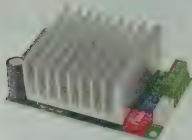


AC Powered Step Motor Driver 18727 MS | \$169.95 ea



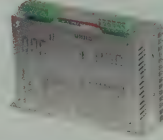
4A Step Motor Driver

32381 MS | \$17.95 ea



6A Step Motor Driver

18188 MS | \$96.00 ea



Basic Step Motor Controller

34114 MS
\$12.95 ea

Linear Drive Belt Kit

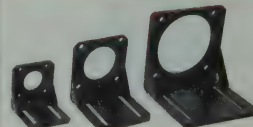
32387 MI | \$8.95 ea

GT2X 6mm



Step Motor Bracket

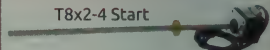
32431 MS	Nema 17	\$4.95 ea
32379 MS	Nema 23	\$4.95 ea
32432 MS	Nema 34	\$8.95 ea



300mm Leadscrew Step Motor

33515 MS | \$29.95 ea

T8x2-4 Start



NEMA 17 4 lead
2.7V/1.33 Ohm Motor

"Z" Axis 3D Printer Motor Assembly

33998 MI | \$69.95 ea

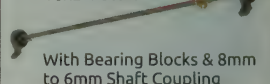


NEMA 17 4 lead
2.2V/1.7 Ohm Motor
.02mm slide movement/step

350mm Leadscrew Kit

32396 HD | \$19.95 ea

T8x2-1 Start



With Bearing Blocks & 8mm to 6mm Shaft Coupling



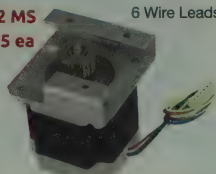
2.7V 1.8 Deg NEMA 23 Step Motor

30460 MS | \$7.49 ea
4 Wire Leads



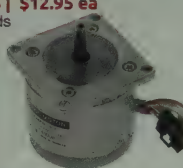
2.3V 1.8 Deg NEMA 23 Step Motor

31392 MS | \$18.95 ea
6 Wire Leads



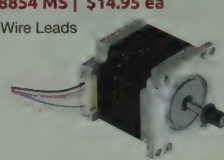
9V 1.8 Deg NEMA 23 Step Motor

32493 MS | \$12.95 ea
4 Wire Leads



3V 1.8 Deg NEMA 23 Step Motor

18854 MS | \$14.95 ea
6 Wire Leads



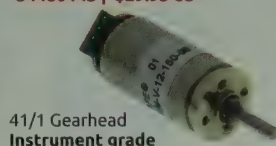
2.5V 1.8 Deg NEMA 23 Step Motor

31394 MS | \$8.95 ea
6 Wire Leads



12V Gear Head Step Motor

34480 MS | \$29.95 ea



41/1 Gearhead
Instrument grade

USED 24V 1.8 Deg NEMA 23 Step Motor

15837 MS | \$8.95 ea
5 Wire Leads



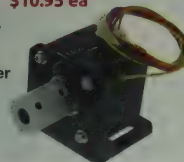
3.84V 1.8 Deg NEMA 23 Step Motor

17607 MS | \$9.95 ea
5 Wire Leads



10.4V 1.8 Deg NEMA 17 Step Motor

33449 MS | \$10.95 ea
4 Wire Leads with Mtg. Bracket and 8mm Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33448 MS | \$10.95 ea
4 Wire Leads with Mtg. Bracket and 1/4" Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33358 MS | \$12.95 ea
Includes COG Belt and Gear set.



4 Wire Leads

10.4V 1.8 Deg NEMA 17 Step Motor

33356 MS | \$7.95 ea
4 Wire Leads



3.5V 3.75 Deg NEMA 17 Step Motor

32101 MS | \$5.95 ea
4 Wire Leads



5V Leadscrew Micro Step Motor

32378 MS | \$1.95 ea
4 P.C. Mount Leads



12V 1.8 Deg NEMA 14 Step Motor

18688 MS | \$13.75 ea
6 Wire Leads



12V 1.8 Deg NEMA 14 Step Motor

18689 MS | \$13.75 ea
4 Wire Leads



0.72 Deg Penta Drive NEMA 11 Step Motor

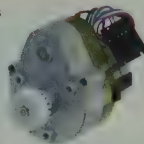
31130 MS | \$5.95 ea
5 Phase Bi-Polar



5 Wire Leads

56V Gear Head Step Motor

18891 MS | \$14.95 ea
4 Wire Leads



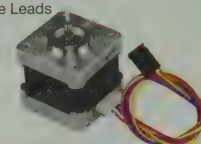
2.66V .1 Deg NEMA 11 Step Motor

31129 MS | \$9.95 ea
6 Wire Leads



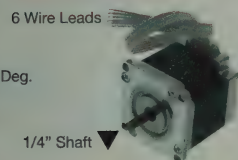
1.8 Deg NEMA 17 Step Motor

19533 MS | \$9.95 ea
4 Wire Leads



5V NEMA 23 Step Motor

35032 MS | \$12.95 ea
6 Wire Leads

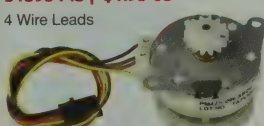


1.8Deg.

1/4" Shaft

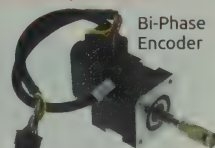
12V 3.75 Deg Step Motor

31393 MS | \$1.95 ea
4 Wire Leads



Linear Actuator

34750 MS | \$19.95 ea

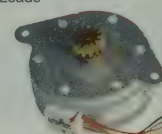


Bi-Phase Encoder

5V NEMA 14 Stepmotor

24V 7.5 Deg Step Motor

18368 MS | \$3.95 ea
5 Wire Leads





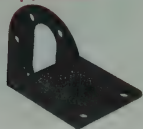
12VDC Gearmotors

37 mm dia X 51mm long motor plus 6mm dia. X 14mm shaft, bronze bearings. Six M3x0.5 mounting holes in front. Solder terminals

32203 MD | 5 RPM | \$12.95 ea
32204 MD | 30 RPM | \$12.95 ea
32205 MD | 80 RPM | \$12.95 ea
32206 MD | 100RPM | \$12.95 ea

37mm Motor Bracket

33574 MD | \$3.95 ea



3-6VDC Motor & Tire

32064 MD | \$3.95 ea



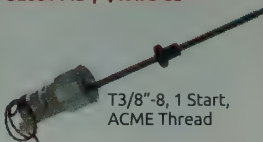
12VDC ACME Gear Motor

32575 MD | \$19.95 ea



24VDC Leadscrew Gear Head Motor

32681 MD | \$19.95 ea



T3/8"-8, 1 Start, ACME Thread

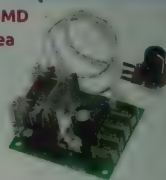
24VDC Gear Head Motor

32684 MD | \$19.95 ea



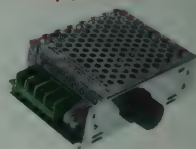
6-24VDC 20Amp Max Motor Speed Control

31566 MD
\$8.95 ea



12-80VDC 20Amp Max Motor Speed Control

33377 MD | \$15.95 ea



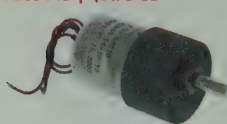
12VDC Gearmotor

17 mm dia X 45mm long motor plus 3mm dia. X 8mm shaft, bronze bearings. Two M2x0.4 mounting holes in front. Solder terminals

32208 MD | 25 RPM | \$12.95 ea
32209 MD | 55 RPM | \$12.95 ea

4.5VDC 140RPM Gear Head Motor

19285 MD | \$9.95 ea



3VDC 37RPM Micro Gear Head Motor

31251 MD | \$7.25 ea

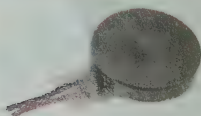


All Metal Gears

3mm Dia. Shaft

3VDC Flat Vibrator Motor

32115 MD | \$1.95 ea



3VDC Mini Motor

34668 MD | \$0.79 ea



SG90 Servo Motor

31002 MD | \$5.95 ea



36VDC Gear Head Motor

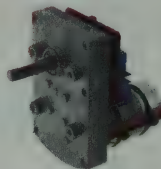
31474 MD | \$12.95 ea



Hi-Torque Servo Motor

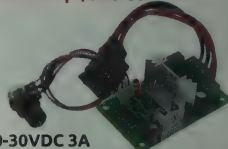
34108 MD | \$69.95 ea

180kg/cm



Motor Speed Control with Reversing Switch

32678 MD | \$8.95 ea



10-30VDC 3A

6VDC Gear Head Motor

32176 MD | \$34.95 ea

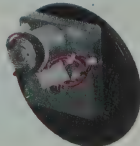
Bi-Phase Sensor



~66RPM @ 6V

USED 24VDC 45 RPM Gear Head Motor with Wheel

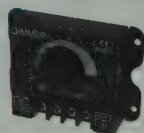
17971 MD
\$9.95 ea



Speed Control/LED Dimmer Module

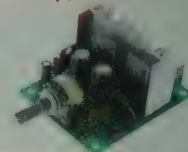
12-24VDC 30A

33920 MI
\$14.95 ea



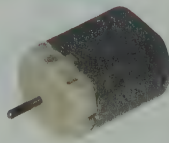
6.5-20VDC 10Amp Max Motor Speed Control

33371 MD | \$8.95 ea



8-16VDC Mini Motor

18298 MD | \$0.99 ea



Motor Speed Control with Display

6-30VDC 8A

32673 MD
\$14.95 ea



Remote Control DC Motor Reversing Switch

33003 MD | \$24.95 ea

12-36VDC
60W max Load
"Fwd/Off/Rev"



Die Cast Aluminum Boxes

Aluminum alloy with cover & M3.5 stainless steel screws included. Internal guides on ends & sides for holding PC boards. Natural Bare Aluminum Finish. Listed below are the outside dimensions.



STOCK #	L"	W"	H"	WT.	1EA
16281 BX	2.36"	2.17"	1.18"	.18	\$3.95
16282 BX	3.15"	2.17"	0.98"	.2	\$4.25
16283 BX	3.50"	1.37"	1.18"	.16	\$3.95
16284 BX	4.49"	2.52"	1.18"	.28	\$5.95
16285 BX	4.49"	2.52"	2.17"	.36	\$7.49
16286 BX	4.49"	3.50"	2.17"	.50	\$9.25
16287 BX	4.72"	3.94"	1.38"	.56	\$8.95
16288 BX	5.51"	3.94"	2.95"	.86	\$13.85
16289 BX	6.50"	5.00"	2.95"	1.12	\$18.55
16290 BX	6.73"	4.76"	2.17"	.96	\$17.51
16291 BX	6.73"	4.76"	4.17"	1.40	\$19.95
16292 BX	8.74"	5.75"	2.17"	1.44	\$22.91
16293 BX	8.74"	5.75"	4.17"	2.80	\$28.71
16294 BX	9.84"	9.84"	3.94"	3.50	\$51.88
16295 BX	10.83"	6.89"	2.56"	2.08	\$32.91

Sealed Plastic Boxes

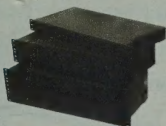
Gray ABS plastic project boxes with lids. Tongue & groove sealing meet IP-65 & NEMA 4 requirements. 4 standoffs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. **17407 NO Internal Guides** Listed below are the outside dimensions.



STOCK #	L"	W"	H"	WT.	1EA
17392 BX	4.53"	3.54"	2.17"	.35	\$6.95
17393 BX	6.73"	4.76"	2.17"	.54	\$9.95
17395 BX	6.73"	4.76"	3.15"	.73	\$12.95
17396 BX	7.68"	3.15"	2.17"	.49	\$8.95
17398 BX	10.43"	7.28"	3.74"	1.5	\$24.95
17402 BX	7.87"	4.72"	2.95"	.8	\$14.95
17405 BX	9.45"	6.3"	4.72"	1.5	\$20.95
17406 BX	11.81"	9.06"	4.37"	2.4	\$35.95
17407 BX	14.17"	7.87"	5.91"	3.1	\$33.95

19" Plastic Rack Mount Cabinets

Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required. **NOTE: Not Available For Air Shipments.** Measurements below are for Internal Space



STOCK #	DESC	W"	D"	H"	WT.	1EA
17086 BX	1U	16-3/16"	7-11/16"	1"	1.9	\$24.95
17087 BX	2U	16-3/16"	7-11/16"	2-7/8"	2.5	\$34.95
17088 BX	3U	16-3/16"	7-11/16"	4-1/2"	3.0	\$39.95

19" Metal Rack Mount Cabinets

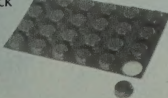
19in. rack mount cases. 1/8in. Aluminum Front Panel with steel chassis & covers. Satin black textured paint. **NOTE: Not Available For Air Shipments**



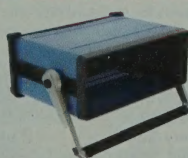
STOCK #	DESC	W"	D"	H"	WT.	1EA
17811 BX	1U	19"	11.8"	1.75"	1.9	\$34.95
17812 BX	2U	19"	11.9"	3.5"	2.5	\$39.95

Rubber Feet

31471 BU | \$3.50 ea
3M P/N SJ6316 peel-n-stick rubber feet. Sheet of 24 Gray bumpers 7/8" in diameter X 3/8" tall. Ideal as shock absorbers, equip. feet



Desktop Instrument Case 33008 BX | \$89.00 ea



Plastic Project Cabinets

Black plastic project boxes with **flat lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws. **NOTE: 15881-BX has NO Internal Guides.** Outside dimensions are listed below.



STOCK #	L"	W"	H"	WT.	1EA
15522 BX	3"	2"	1.16"	.07	\$2.49
15523 BX	4"	3"	1.6"	.13	\$2.95
15881 BX	4.41"	2.24"	.87"	.08	\$2.35
15518 BX	5"	2.5"	1.75"	.17	\$3.49
32652 BX	5.9"	3.9"	2.36"	.27	\$4.35
15883 BX	7.25"	4.5"	2.52"	.50	\$7.49

Plastic Project Cabinets

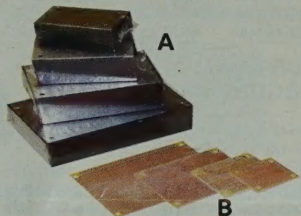
Black plastic project boxes with **deep lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws. Outside dimensions are listed below.



STOCK #	L"	W"	H"	WT.	1EA
15885 BX	3.74"	1.89"	1.46"	.11	\$3.35
15886 BX	4.53"	2.36"	1.73"	.15	\$3.75
15520 BX	5.3"	3"	1.9"	.25	\$4.95
15887 BX	6.3"	3.74"	2.44"	.33	\$5.95
15888 BX	7.6"	4.53"	2.95"	.45	\$8.95
15521 BX	8.8"	5.5"	3.6"	.75	\$8.95

Plastic Project Cabinets & Perf Boards

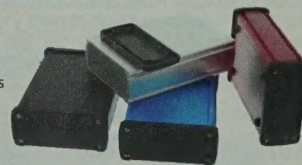
Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & PC board screws. Solderable phenolic Perf. Board has .1" hole grid pattern, copper one side. All dimensions are approx.



STOCK #	FIG.	SIZE	L"	W"	D/T"	WT.	1EA
15911 BX	A	Large	5-1/4"	3-1/4"	1-9/16"	.22	\$5.25
15912 PB	B	Large	4-5/16"	3-1/8"	1/16"	.04	\$1.75
15913 BX	A	Medium	4-1/8"	2-5/8"	1-9/16"	.15	\$3.50
15914 PB	B	Medium	3-1/8"	2-1/2"	1/16"	.02	\$1.10
15915 BX	A	Small	3-5/16"	2-1/8"	1-3/8"	.11	\$2.75
16227 PB	B	Small	2-5/16"	1-15/16"	1/16"	.02	\$0.79
15917 BX	A	Mini	2-11/16"	1-11/16"	1-3/16"	.08	\$2.50
15918 PB	B	Mini	1-3/4"	1-1/2"	1/16"	.009	\$0.59

Extruded Aluminum Enclosures

Extruded anodized 6063 aluminum instrument cases with black powder coated, cast aluminum end caps. Internal slots for holding PC board(s), 4 peel-n-stick rubber feet & stainless End Cap screws, IP66 rated when using the accessory Gaskets (sold separately) View Online additional accessories.



STOCK #	COLOR	L"	W"	H"	1EA
32740 BX	Silver	7-3/4"	4-9/16"	2"	\$19.95
32741 BX	Red	7-3/4"	4-9/16"	2"	\$19.95
32742 BX	Blue	7-3/4"	4-9/16"	2"	\$19.95
32743 BX	Black	7-3/4"	4-9/16"	2"	\$19.95

9.3" X 6.2" X 3.5" Waterproof Case

17813 BX
\$17.95 ea



12" X 7.4" X 4.4" Waterproof Case

18351 BX
\$29.95 ea



Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole.
Solder tab terminals.
Rated 6 Amps @ 125VAC.

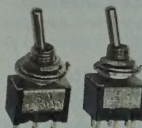


WT.: 02

STOCK #	STYLE	DESC.	TEA
25005-SW	SPST	On-Off	\$0.75
25006-SW	SPDT	On-On	\$0.39
25010-SW	SPDT	On-Off-On	\$0.45
25009-SW	SPDT	(Mom)-Off-(Mom)	\$0.58
25014-SW	DPDT	On-Off-On	\$0.59
25016-SW	DPDT	(Mom)-Off-(Mom)	\$0.79

Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole. Solder tab terminals.
Rated 5 Amps @ 125VAC.

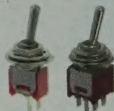


WT.: 02

STOCK #	STYLE	DESC.	TEA
16071-SW	SPDT	On-(Mom)	\$0.58
16072-SW	SPDT	On-Off-(Mom)	\$0.58
16073-SW	DPDT	On-(Mom)	\$0.69
16074-SW	DPDT	On-Off-(Mom)	\$0.69
16075-SW	3PDT	On-On	\$0.74
16076-SW	3PDT	On-Off-On	\$0.88
16077-SW	4PDT	On-On	\$1.42
16078-SW	4PDT	On-Off-On	\$1.75

SUB-MINI TOGGLE SWITCH

Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs.
Rated 1 Amp @ 250VAC.



WT.: 02

STOCK #	STYLE	DESC.	TEA
32850-SW	SPDT	On-None-Off	\$0.89
32854-SW	DPDT	On-None-On	\$0.89
32855-SW	DPDT	On-Off-On	\$0.89

Lighted Pushbutton Switch



Momentary or Alternate Action (Push ON-Push-OFF), SPDT, Full size, metal body, Pushbutton switch with LED lighted Ring around Button. Rated 5A @ 250VAC

Dia: 7/8" Mtg.: 3/4" hole L: 1-1/2" O/A WT.: 04

STOCK #	DESC.	TEA
31370-SW	Red Momentary Switch	\$4.95
31371-SW	Green Momentary Switch	\$4.95
31372-SW	Blue Momentary Switch	\$4.95
31375-SW	Red Alternate Action Switch	\$5.95
31376-SW	Green Alternate Action Switch	\$5.95
31377-SW	Blue Alternate Action Switch	\$5.95

Pushbutton Switch



IP-67 rated, CMP #MP19S-F10, Flat Button, Metal Body, SPST-NO, Pushbutton switch. Mounts in a 3/4" hole.

Dia: 7/8" Mtg.: 3/4" hole L: 1-1/16" O/A WT.: 04

STOCK #	DESC.	TEA
32091-SW	Red Momentary P/B Switch	\$4.95
32092-SW	Green Momentary P/B Switch	\$4.95
32093-SW	Blue Momentary P/B Switch	\$4.95
32094-SW	Gold Momentary P/B Switch	\$4.95
32095-SW	Black Momentary P/B Switch	\$4.95

Full Size 15A Toggle Switch

.25" Quick Connect terminals.

Standard size toggle switch, Mounts in a 15/32" hole. Rated: 10 Amps @ 250VAC. 15A @ 125VAC.



WT.: 03

STOCK #	STYLE	DESC.	TEA
18371-SW	SPDT	On-None-On	\$1.95
18372-SW	SPDT	(Mom)-Off-(Mom)	\$1.95
18373-SW	DPDT	On-None-On	\$1.95
18374-SW	DPDT	On-Off-On	\$1.95
18375-SW	DPDT	(Mom)-Off-(Mom)	\$1.95

Full Size 15A Toggle Switch

Standard size toggle switches, Mounts in a 1/2" hole. Rated: 10 Amps @ 250VAC. 15A @ 125VAC. Screw terminals.



WT.: 08

STOCK #	STYLE	DESC.	TEA
16081-SW	SPDT	On-None-On	\$0.88
16083-SW	SPDT	On-None-(Mom)	\$1.05
16085-SW	SPDT	(Mom)-Off-(Mom)	\$1.05
16088-SW	DPDT	On-None-(Mom)	\$1.49
16089-SW	DPDT	On-Off-(Mom)	\$1.49
16090-SW	DPDT	(Mom)-Off-(Mom)	\$1.49

Heavy Duty 20A Toggle Switches

Standard size toggle switches, Mounts in a 1/2" hole. Rated: 15 Amps @ 250VAC. 20A @ 125VAC. Screw terminals.



WT.: 03

STOCK #	STYLE	DESC.	TEA
33240-SW	SPST	On-Off	\$1.95
33243-SW	SPDT	On-On	\$1.95
33245-SW	SPDT	On-Off-On	\$2.50
12219-SW	DPST	On-Off-On	\$1.95
12221-SW	DPDT	On-Off-On	\$2.50

Misc. Toggle Switches



25001-SW



25002-SW



12223-SW

Full size toggle switch, Amp Ratings are @ 125VAC.

5001: Wire leads 5002: Solder tab 5004 & 12223: Screw

Mtg. Hole: 1/2 hole

WT.: 07

STOCK #	STYLE	DESC.	AMP	TEA
25002-SW	SPST	On-None-Off	4	\$0.75
25001-SW	SPST	On-None-Off	6	\$1.25
12223-SW	SPST	On-None-Off	10	\$1.25

Full Size Toggle Safety Covers



Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position.

STOCK #	DESC.	WT.: 03
16100-SW	Red Safety Cover	\$0.69
16105-SW	Black Safety Cover	\$0.69
16106-SW	Clear Safety Cover	\$0.69
16108-SW	Transp. Red Safety Cover	\$0.69

Push Button Switch



SPST Mounts in a 1/4" hole
N.O. = Normally Open
N.C. = Normally Closed

25019 SW | N.O. Red | \$0.29 ea
25020 SW | N.C. Black | \$0.29 ea

Push Button Switch

16093 SW | \$2.02 ea

SPST Normally Open
Mounts in a 3/4" hole.
Metal Face.



Foot Switch

18150 SW | \$5.95 ea

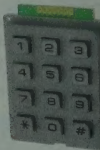
SPST Normally Open Metal
petal
with 1 meter
pigtail.



Metal X-Y Keypad

32340 SW
\$4.95 ea

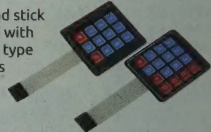
3 X 4 pad with
X-Y matrix



X-Y Key Pads

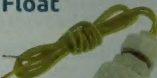
31045 SW | 3x4 pad | \$2.95 ea
31046 SW | 4x4 pad | \$2.95 ea

Peel and stick
keypad with
bubble type
buttons



Plastic Float Switch

30453 SW
\$3.95 ea



SPST Rotary Switch

32597 SW | \$0.99 ea

Single pole
5 positions



BCD Thumb Switch

32083 SW | \$0.75 ea

0-9 push button
BCD switch.
End plates
Available



**Multi Function
AC LCD Panel Meter**

32409 ME | \$19.95 ea
260VAC 20A with internal CT. Volt,
Current, Power and Energy Display



**Multi Function
AC LCD Panel Meter**

32403 ME | \$24.95 ea
260VAC 100A with external CT. Volt,
Current, Power and Energy Display



**Multi Function
AC LED Panel Meter**

32404 ME | \$24.95 ea
260VAC 100A with external CT.
Power, Energy, Voltage and Current
Display



**Dual Display
AC LED Panel Meter**

34797 ME | \$14.95 ea
300VAC 50A with Built-in CT.

Voltage and
Current
Display



**Dual Display
AC LED Panel Meter**

34745 ME | \$16.95 ea
300VAC 100A with external CT.
Voltage and Current Display



**Dual Display
AC LED Panel Meter**

34746 ME | \$19.95 ea
300VAC 200A with external CT.
Voltage and Current Display



**3 Digit 60-300VAC LED
Panel Meter**

30220 ME | Red | \$6.95 ea

Snap-in self
powered LED
meter, 1VOLT
resolution,
0.56" Character
height.
6" wire leads
sine wave only!



**12V Battery System
Monitor**

34899 ME | \$19.95 ea

Color Bargraph
Display

Fits in a 29mm
Mounting Hole



**Dual Display
AC LED Panel Meter**

33407 ME | \$22.95 ea
Din Rail Mount
300VAC 100A with
internal CT.
Voltage and
Current Display



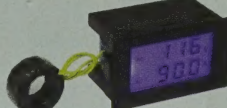
**Multi Function
AC LED Panel Meter**

31567 ME | \$19.95 ea
600VAC 100A with external CT.
Voltage, Current and Frequency Display
Requires external 12VDC power
source



**Dual Display
AC LCD Panel Meter**

31496 ME | \$17.95 ea
300VAC 100A with external CT.
Voltage and Current Display



**10-199Hz Frequency
AC LCD Panel Meter**

32406 ME | \$14.95 ea



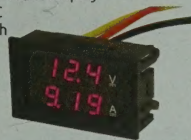
**12VDC LED Panel
Meter with Bar Graph**

32322 ME | \$12.95 ea



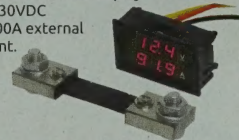
**Dual Display
DC LED Panel Meter**

30303 ME | \$12.95 ea
Volt and Current Display
4.5-30VDC
0-10A with
internal
Shunt.



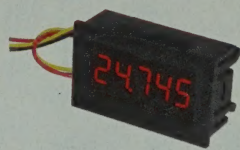
**Dual Display
DC LED Panel Meter**

32063 ME | \$17.95 ea
Volt and Current Display
4.5-30VDC
0-100A external
Shunt.



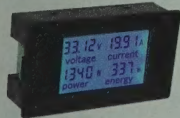
**3.5-30VDC 5 Digit
Panel Meter**

32711 ME | \$12.95 ea



**Multi Function
DC LCD Panel Meter**

32541 ME | \$17.95 ea
100VDC 20A with internal Shunt. Volt,
Current, Power and Energy Display



**Multi Function
DC LCD Panel Meter**

32542 ME | \$18.95 ea
100VDC 100A with external Shunt.
Volt, Current, Power and Energy
Display



Mini 3 Digit 4.5-30VDC LED Panel Meter

33065 ME | Red | \$5.95 ea
33066 ME | Green | \$6.95 ea
33067 ME | Blue | \$6.95 ea

LED self powered meter 0.1/0.1 Volt
resolution auto range 0.56" Character
height 5" wire leads. With Bezel.



Mini 3 Digit 4.5-30VDC LED Panel Meter

19598 ME | Red | \$4.95 ea
19599 ME | Blue | \$4.95 ea
19600 ME | Green | \$4.95 ea
32961 ME | White | \$5.95 ea

LED self powered meter 0.1VOLT
resolution .375" Character height
5" wire leads. No Bezel.



**0-5Amp DC LED Panel
Meter**

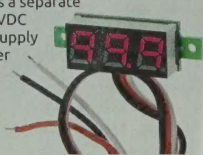
32924 ME | \$8.95 ea

Requires a
separate
4.5V-28VDC
Power Supply
for meter



**Mini 3 Digit 0-100VDC
LED Panel Meter**

32321 ME | \$3.95 ea
Requires a separate
2.5V-30VDC
Power Supply
for meter



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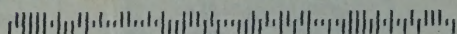
314310

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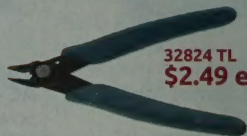
03985

T32 P1

PHIL ACCARDI
7 DOMINIQUE LN
SIMSBURY CT 06070-1623



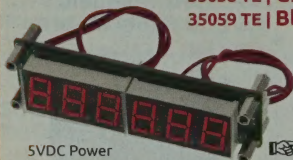
Component Flush Cutters



32824 TL
\$2.49 ea

6 Digit 100KHz-65MHz Frequency Meter

35057 TE | Red LED
35058 TE | Green LED
35059 TE | Blue LED



5VDC Power

\$12.95 ea

8 Digit 100KHz-2.4Ghz Frequency Meter

34112 TE | Blue LED
34280 TE | Green LED
34279 TE | Red LED



5VDC Power

\$18.95 ea

Load Cell For Microcontrollers

35060 MI | 1Kg
35061 MI | 5Kg
34723 MI | 10Kg



\$4.95 ea

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Panel AC Volt Meters 22.8mm Round



34657 ME | Red LED
34658 ME | Green LED
34659 ME | Yellow LED
34660 ME | Blue LED
34661 ME | White LED

\$2.95 ea

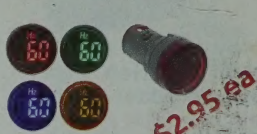
Panel AC Amp Meters 22.8mm Round



35152 ME | Red LED
35153 ME | Green LED
35154 ME | Blue LED
35155 ME | Yellow LED
35156 ME | White LED

\$5.95 ea

Panel Frequency Meters 22.8mm Round



35158 ME | Red LED
35159 ME | Green LED
35160 ME | Blue LED
35161 ME | Yellow LED

\$2.95 ea

5VDC 4A Plug Supply 18520 PS | \$6.95 ea



5.5/2.1mm

Stackable Test Leads

2m Long

34609 TE | \$11.95 set



16AWG

22.8mm Square



35146 ME | Red LED
35147 ME | Green LED
35148 ME | Blue LED
35149 ME | Yellow LED
35150 ME | White LED

\$2.95 ea

22.8mm Square



35170 ME | Red LED
35171 ME | Green LED
35172 ME | Blue LED
35173 ME | Yellow LED
35174 ME | White LED

\$5.95 ea

22.8mm Square



35164 ME | Red LF
35165 ME | Green LED
35166 ME | Blue LED
35167 ME | Yellow LED

\$2.95 ea

12VDC 3A Adapter Power Supply



34445 PS |
\$6.95 ea

5.5/2.1mm